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RESULTS OF THE SORTING OF THE MIKRONEKTON AND ZOOPLANKTON MATERIAL SAMPLED BY THE GERMAN ANTARCTIC EXPEDITION 1975/76

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1. Zusammenfassung

Im Folgenden wird eine Übersicht über alle im Kieler Sortierzentrum aus dem Zooplankton- und Mikronektonmaterial der Deutschen Antarktis-Expedition 1975/76 aussortierten Taxa gegeben. Es werden ferner die Arbeitsmethoden dieses Sortierzentrums kurz geschildert. Hinweise zur weiteren Bearbeitung des Materials werden gegeben.

1.1. Summary

A description is given of the taxa sorted out of the zooplankton and mikronekton material of the 1st German Antarctic Expedition 1975/76 by the Kiel sorting center. The methods employed in the sorting center are described in detail. Notes for further use of the material are also given.

2. Introduction

The following data collection should enable those involved in the working up of the vast amount of zooplankton and mikronekton material taken by the German Antarctic Expedition 1975/76 to gain a better impression of the spatial and temporal distribution and abundance of all the sorted taxa. Table 1 indicates the total

number of hauls and types of nets used during the expedition.

Table 1: The zooplankton and mikronekton hauls of the German Antarctic Expedition 1975/76

Net type		RMT 1+8	Bongo	Neuston	Meßhai
Leg	I	96	-	100	15
	II	108	-	99	2
	III	73	15	47	-
Total		277	15	246	17

For a description of the expedition see SAHRHAGE, SCHREIBER, STEINBERG and HEMPEL (1978). A short description of the work carried out at sea by members of the Institut für Meereskunde of the University of Kiel and an impression of the development of the working up of the material at the beginning of 1978 is given by POMMERANZ (1978). The exact positions of the various stations together with details of the nets used, type of haul and further relevant data are given by WÖRNER and KÜHN (1978).

3. Methods employed by the sorting center of the Fisheries Biology Department at the Institut für Meereskunde

The actual sorting work began on the 1st of July 1976 with a one week introductory course for antarctic zooplankton led by A. de C. Baker (Institute of Oceanographic Sciences, Wormley). Following a visit to the Polish-American plankton sorting center of the Morski Instytut Rybacki thoughts turned to the spatial concentration of our sorting work. The Kiel sorting center began work on the 1st of March 1977.

The samples were sorted into the following taxa:

Fish
Fish larvae
Fish eggs
Scyphomedusae
Euphausia superba (postlarvae + adults)
other Euphausiids (postlarvae + adults)
Euphausiid larvae
Amphipoda
Decapoda (postlarvae + adults)
Decapoda larvae
Mysidaceae
Chaetognatha
Appendicularia
Salpidae
Siphonophora
Polychaeta
Cephalopoda
other Mollusca
unidentified organisms
unidentified eggs

The remaining rest consisted of Copepoda and Ostracoda.

All non-planktonic organisms i.e. animals longer than ca. 25 mm (e.g. Salps, Euphausiids, Chaetognatha, Polychaeta, young fish) were removed from the RMT 1 samples, sorted and preserved. Fish larvae were selectively removed. The sample was then split using a modified FOLSOM-splitter (Fig. 1) which halves the sample each time. The first split results in 2 x 1/2 samples, the second splits half a sample into 2 x 1/4 of the original sample etc.

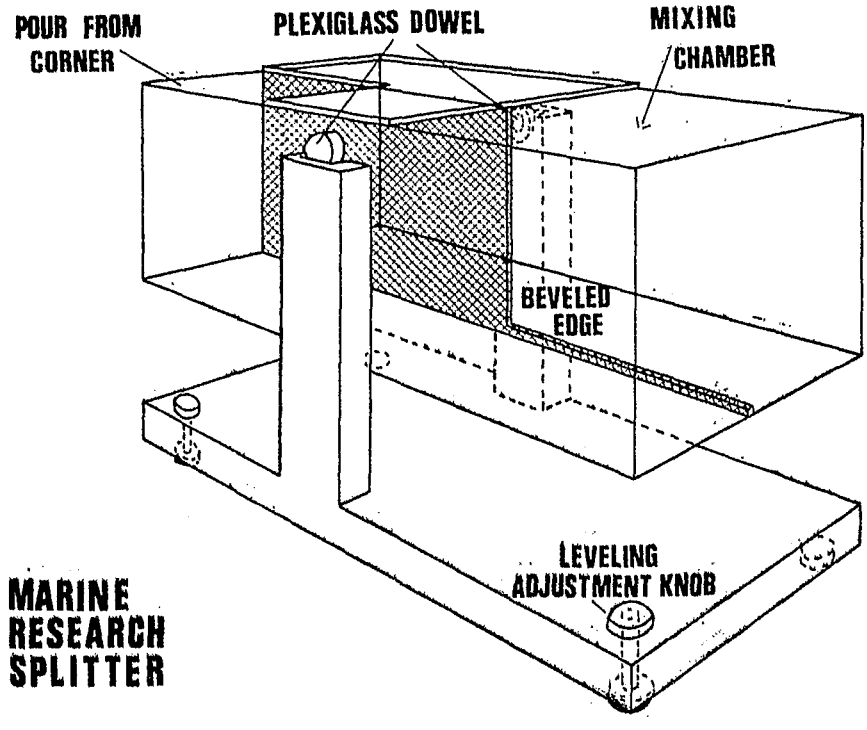

Fig. 1: Modified FOLSOM-splitter as used by the Kiel Sorting Center
(Designed by Marine Research Inc., Falmouth, Mass.)

The sample to be examined should be small enough to be worked up in a reasonable period of time and large enough to reproduce a representative picture of the total sample. The aliquot, in most cases 1/32nd or 1/64th, was completly sorted. Bongo, meßhai and neuston samples were treated as RMT 1 samples, however the neuston samples were generally so small that they were not split.

The RMT 8 samples were not split but sorted completely; only those organisms being removed which the net assumedly quantitatively samples (Ø ≥ca. 3 mm). However, when no corresponding RMT 1 sample existed the RMT 8 sample was treated as an RMT 1 thus providing a qualitative impression of the smaller organisms which occurred at this station.

4. Notes for further use of the material

All data concerning the size of the samples found in the 'Data collection' refer only to the sample splitting procedure employed by the Kiel sorting center. When the catch was split on board the size of the subsample taken on board can be found in the 'Liste der Mikronekton und Zooplanktonfänge' (WÖRNER und KÜHN, 1978). Should the number of individuals of a particular species removed from the RMT 1 aliquot be too few the unsorted fraction (e.g. 31/32) of the total sample is available for further reference.

The labels found in the sample bottles follow the pattern shown below:

Example:

W.H. Ant. I	RMT 1	
St. 58	28.12.75	Front
Hol 149	Fl.Nr. 390	
Amphipoda		
n = 98		Rear
1/32		

W.H. = FFS "Walther Herwig"; Ant I (II, III) = 1, (2, 3) expedition leg; St. = Station number; Hol = Haul number; Fl.Nr. = Bottle number of the original sample; n = Total number of individuals of the respective organism removed from the given aliquot in the sorting center; 1/32 = size of aliquot with respect to the original sample.

A 4 % buffered Formaldehyde-fresh water solution was used to conserve all samples.

5. References

POMMERANZ, T. (1978), Mikronekton und Zooplankton, in: SAHRHAGE, D. SCHREIBER, W., STEINBERG, R. und HEMPEL, G., Antarktis-Expedition 1975/76 der Bundesrepublik Deutschland Arch. Fischwiss. 29: 31-41

SAHRHAGE, D., SCHREIBER, W., STEINBERG, R. und HEMPEL, G. (1978), Antarktis-Expedition 1975/76 der Bundesrepublik Deutschland Arch. Fischwiss. 29: 1-96

WÖRNER, F.G. und KÜHN, A. (1978), Liste der Mikronekton- und Zooplanktonfänge der Deutschen Antarktis-Expedition 1975/76, Ber. Inst. Meereskd. (48): 55 pp.

6. Data collection: Key to numerical code

1. Station number
2. Haul number
3. Filtered water volume (m^3)
4. Net number
5. Mesh size (μ)
6. Aliquot
7. Upper or lower net
8. Fish
9. Fish larvae
10. Fish eggs
11. Scyphomedusae
12. Euphausia superba (postlarvae + adults)
13. Other Euphausiids (postlarvae + adults)
14. Euphausiid larvae
15. Amphipoda
16. Decapoda (postlarvae + adults)
17. Decapoda larvae
18. Mysidaceae
19. Chaetognatha
20. Appendicularia
21. Salpidae
22. Siphonophora
23. Polychaeta
24. Cephalopoda
25. Other Mollusca
26. Copepoda + Ostracoda (presence/absence)

W.H. Antarktis 75/76 RMT I hauls

1	2	3	6	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
4	2		1/32	124	0	2	0	287	692	1132	0	0	0	3822	96	501	322	3	1	961	✓
5	3		1/32	364	14	6	0	1115	4,644	840	1	52	2	696	0	3,776	647	93	4	4,615	✓
6	4		1/32	52	0	126	0	232	696	793	0	293	0	10,865	32	4,521	515	722	35	997	✓
7	5	3,720	1/32	147	32	4	0	643	2,592	1,128	11	0	0	27,639	256	2,583	327	233	6	258	✓
8	8	2,650	1/32	210	0	0	0	925	4,384	1,312	0	0	0	18,212	0	0	192	192	3	160	✓
9	9	3,990	1/32	169	200	1	0	453	1,960	877	0	5	0	8,035	0	97	159	491	4	4,135	✓
10	10	3,360	1/32	126	0	2	0	36	1,712	626	0	160	0	4,[illegible]	160	0	0	64	3	623	✓
11	11	4,270	1/32	128	0	0	0	229	18,880	662	0	0	0	2,363	96	3	0	249	1	+	✓
12	12	2,950	1/32	7	0	1	0	19	21,760	464	0	352	0	7,497	416	0	33	544	8	99	✓
20	51	3,270	1/32	369	0	4	0	229	19,232	1,298	0	0	0	1355	256	4	33	224	3	>21	✓
21	53	2,370	1/32	64	0	0	0	24	3,008	101	0	96	0	1336	0	0	0	98	0	41	✓
22*	55	1,830	1/4	4	0	0	0	28	428	38	0	0	0	58	28	140	0	10	0	283	✓
23	57	1,470	1/8	85	1	0	1	12	5,960	158	1	0	0	575	10	82	103	287	0	126	✓
25	59	2,150	1/4	8	1	0	2,084	1226	104	84	0	20	0	922	0	2127	3	174	0	90	✓
26	61	2,380	1/32	43	0	33	27	79	1648	230	0	4	0	1736	0	1038	126	255	0	345	✓
25	63	1,650	1/16	133	0	60	0	16	11,408	278	0	0	0	1533	0	12	18	208	0	409	✓
25	65	2,910	1/32	2	416	0	0	0	23,040	384	0	0	0	5252	0	13	6	1579	0	2106	✓
25	67	2,000	1/32	1	0	0	0	222	9,408	224	0	0	0	3233	1152	230	0	178	0	1055	✓
25	69	2,640	1/32	178	0	0	0	157	12,448	143	0	0	0	5641	128	24	0	382	0	1053	✓
26	71	2,220	1/32	20	0	0	0	6	12,992	349	0	0	0	1521	96	123	65	66	4	340	✓
25	73	4,340	1/32	10	0	0	0	13	7,200	61	0	0	0	2396	0	0	0	64	1	99	✓
25	75	1,560	1/32	66	0	129	0	90	11,936	568	0	0	0	3,050	128	0	62	256	0	603	✓
26	77	1,340	1/1	18	8	1	0	20	2,576	171	0	0	0	1011	32	4	0	31	2	436	✓

W.H. Antarktis 75/76 RMT I hauls (contd.)

1	2	3	6	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
26	79	1,160	1/1	18	0	0	0	15	2,453	291	0	0	0	341	24	1	0	35	1	>315	✓
26	81	2,900	1/16	12	0	0	0	21	3,968	127	0	0	0	80	112	18	46	89	0	365	✓
26	83	4,240	1/16	81	0	4	0	133	4,928	190	0	0	0	836	0	66	0	7	3	>766	✓
26	85	3,660	1/32	32	0	0	0	24	7,392	273	0	0	0	2585	800	13	0	289	0	368	✓
26	87	3,660	1/32	11	0	0	0	6	4,576	42	0	0	0	3014	0	153	0	10	0	795	✓
26	89	3,790	1/32	125	0	0	106	99	23,488	561	0	0	0	8433	449	449	0	3237	0	663	✓
26	91	3,790	1/1	60	0	2	3	289	2,302	57	7	0	0	2732	0	655	1	143	10	454	✓
26	93	4,080	1/16	45	1	0	11	185	1,104	21	0	2	0	304	0	0	327	68	0	138	✓
26	95	3,540	1/8	27	0	0	2	272	63	77	0	56	0	57	0	222	132	73	2	208	✓
26	97	3,540	1/32	98	0	0	17	250	2,528	199	0	2	0	1116	0	6	34	473	0	401	✓
27	99	3,600	1/32	42	0	0	50	896	1,728	264	4	0	0	4405	0	34	278	900	1	37	✓
27	101	3,210	1/32	2	0	0	1	74	1,568	93	0	0	0	1039	0	272	9	144	1	227	✓
27	103	2,800	1/32	43	0	1	0	117	2,784	139	0	0	0	2217	0	986	142	186	0	411	✓
27	105	3,980	1/16	47	16	2	2,417	367	4,944	320	0	0	0	1649	0	445	98	217	11	716	✓
27	107	4,440	1/32	40	0	0	0	82	3,040	100	0	0	0	1925	0	196	0	187	1	401	✓
27	109	4,350	1/32	47	6	3	145	492	2,656	244	0	0	0	1,727	0	3000	189	422	2	740	✓
27	111	3,900	1/16	26	0	0	0	463	7,184	264	0	0	0	1,161	0	36	1	278	0	1434	✓
27	113	3,090	1/16	40	0	33	0	63	4,464	166	0	0	0	1,231	0	37	16	45	0	1438	✓
27	115	4,440	1/32	37	0	1	0	691	3,332	537	0	0	0	2,734	0	198	2	278	0	450	✓
27	117	3,140	1/32	213	0	2	0	728	11,832	729	0	2	0	2475	0	31	1	1,154	1	672	✓
29	119	1,150	1/16	66	0	0	0	0	164	93	43	0	2	382	0	3	0	119	0	235	✓
30	121	1,600	1/1	58	0	0	0	113	119	123	23	0	1	735	0	6	0	159	0	347	✓

W.[illegible] Antarktis 75/76 RMT I hauls (contd.)

1.	2	3	6	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
35	123	3,640	1/10	152	0	2	1	157	643	360	21	0	76	2,250	30	30	0	240	0	693	✓
36	125	1,240	1/128	32	0	0	4	0	526	285	0	70	32	634	0	128	0	391	0	102	✓
37	127	2,550	1/32	52	0	0	4	11	832	187	46	0	1	1343	0	8	0	999	0	202	✓
43	129	2,100	1/32	82	0	0	9	384	800	183	0	1	17	2233	0	4	34	818	0	695	✓
44	131	1,060	1/16	42	0	0	11	46	448	70	41	0	7	1,695	0	160	33	764	0	162	✓
45	133	620	1/32	25	0	0	1	45	128	64	42	0	3	590	0	0	2	405	0	303	✓
46	1135	970	1/4	33	0	0	9	46	129	257	36	0	105	692	0	0	2	431	0	471	✓
47	137	620	1/64	17	0	0	185	8	64	111	60	0	0	1037	0	320	0	11	0	95	✓
48	1139	1,420	1/8	22	0	0	1	337	2336	129	0	0	0	1755	0	51	51	1193	0	292	✓
50	141	2,590	1/32	35	0	0	0	7	6048	140	0	0	0	3076	0	14	2	464	1	409	✓
52	143	1,880	1/1	5	0	1	193	11	194	95	6	0	0	58	2	242	1	34	0	34	✓
53	146	1,280	1/8	4	0	2	664	280	232	174	1	0	0	417	0	3389	5	132	0	55	✓
54	147	1,520	1/1	94	0	0	432	197	720	117	0	0	0	837	0	281	1	37	0	0	✓
55	149	1,520	1/1	29	0	0	32	8408	36	187	0	0	0	3530	9	165	3	19	0	653	✓
58	151	3,090	1/32	39	0	0	10	9	8768	404	0	0	0	3078	0	441	0	232	4	602	✓
60	155	2,100	1/256	21	0	0	0	90	11,888	318	0	0	0	5028	0	66	0	781	0	434	✓
61	157	970	1/1	14	0	0	0	33	560	131	0	0	11	341	2	43	2	1	0	228	✓
62	159	1,970	1/64	166	0	0	0	417	3392	417	0	0	54	5968	0	2,462	1	134	0	1169	✓
63	161	1,160	1/1	4	0	0	15	11	774	16	10	0	12	47	41	0	0	0	0	40	✓
64	163	1,980	1/1	90	0	0	5	72	117	50	42	0	164	119	0	19	0	5	0	24	✓
65	165	3,990	1/16	232	0	0	1	90	2896	380	0	0	0	3790	0	1,233	0	21	3	735	✓
66	167	2,010	1/8	41	242	0	0	9	9552	247	0	0	0	1699	16	191	0	197	0	527	✓

1	2	3	6	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
68	189	1,800	1/8	16	0	0	0	31	1224	55	0	0	0	1824	0	119	0	58	0	149	✓
69	191	1,340	1/1	32	0	0	13	156	155	76	24	0	315	41	0	0	0	1	0	303	✓
70	193	1,160	1/1	14	0	0	1	19	55	114	12	0	6	38	0	0	0	3	0	505	✓
71	195	1,160	1/32	12	0	0	0	9	7520	70	0	32	0	2435	128	0	0	101	0	57631	✓
73	199	1,340	1/1	30	0	0	0	133	126	85	2	0	17	571	0	27	2	26	0	329	✓
74	199	1,240	1/64	18	0	0	0	1	67	6	14	0	23	96	0	0	0	1	0	85	✓
75	181	990	1/16	70	0	0	5463	6	272	330	110	0	0	1272	0	0	18	246	0	696	✓
77	183	910	1/1	13	0	1	0	2	47	86	24	0	0	205	0	0	0	27	0	93	✓
79	185	1,880	1/1	56	0	0	19,726	0	84	70	94	0	0	28	0	0	0	28	0	392	✓
80	187	660	1/32	17	0	0	751	2	416	82	20	88	1	365	0	0	0	108	0	399	✓
81	188	360	1/32	52	0	0	0	2	175	46	58	19	0	44	0	0	0	32	0	82	✓
86	190	360	1/128	34	0	0	0	0	259	57	70	0	27	131	0	0	0	0	0	4	✓
88	192	800	1/1	25	0	0	0	11	0	295	2	0	0	0	0	0	0	0	0	2	✓
89	193	970	1/1	20	0	0	87	10	0	101	4	0	0	0	0	0	0	0	0	4	✓
90	194	890	1/1	43	0	0	0	0	16	108	0	0	4	2	0	0	0	0	0	3	✓
93	196	1,870	1/64	91	64	0	1	2	13,108	422	0	0	0	3443	394	93	0	128	0	1076	✓
96	198	1,520	1/16	55	0	11	1	6	2,752	130	0	0	0	961	0	0	0	3933	0	>452	✓
96	200	2,340	1/1	14	0	350	0	2	2048	28	0	0	0	40	0	34	0	0	0	95	✓
98	201	1,560	1/64	18	0	0	0	56	128	80	2	0	0	2634	0	0	324	201	1	1	✓
103	205	2,280	1/16	16	0	9	0	494	528	1126	9	0	0	7617	0	429	0	20	1	0	✓
105	207	2,370	1/32	3	0	2	0	147	96	496	0	0	0	16867	0	77	2696	749	0	1	✓
109	211	2,280	1/8	4	0	1	0	56	42	33	4	0	8	2213	0	10	0	88	0	0	✓

W.H. Antarktis 75/76 RMT I hauls (contd.)

1	2	3	6	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
110	213	2,710	1/32	76	0	0	17	1181	2,400	945	0	32	0	4,407	640	0	192	1040	0	>76	✓
111	215	1,700	1/32	36	0	0	0	5	4,288	2,633	1	0	0	17,432	0	0	1	416	3	4,287	✓
112	217	1,160	1/32	60	0	72	0	38	672	3,376	0	966	0	133	0	0	0	32	2	+	✓
113	219	1,520	1/32	8	0	2	0	263	5,024	739	0	1	0	302	0	6	0	0	3	65	✓
114	221	1,700	1/32	9	0	0	0	934	2,880	198	0	19	1	856	0	0	0	66	1	39	✓
115	223	1,160	1/32	13	0	1	0	869	2,624	132	0	0	0	940	0	0	0	0	2	376	✓
116	225	2,550	1/1	2	0	1	0	4	69	25	0	0	0	396	0	1	3	26	0	20	✓
120	227	1,160	1/32	39	65	0	0	2728	0	2	0	0	0	756	0	202	0	96	0	437	✓
123	231	1,430	1/1	38	0	0	380	0	190	0	0	0	0	304	0	5336	0	38	0	0	✓
124	233	1,240	1/16	231	0	0	781	187	4,224	110	0	0	0	616	0	3,333	0	363	0	22	✓
125	235	1,300	1/32	39	0	0	3	85	20,256	110	1	0	0	327	0	459	0	1,059	0	256	✓
126	237	1,340	1/32	18	0	1	0	32	36,512	47	0	0	0	827	0	1060	0	3,554	0	0	✓
127	239	2,640	1/8	29	0	0	38	103	1,560	66	0	0	0	329		320	2	216	0	2	✓
128	241	1,240	1/16	1	0	0	0	7	448	2	19	0	0	96	0	102	35	208	0	0	✓
130	245	1,520	1/8	0	0	0	0	0	3360	570	0	10	10	570	0	150	0	320	0	0	✓
132	246	1,430	1/32	5	0	0	0	19	5,504	56	6	0	0	7	0	2749	0	35	0	5	✓
134	248	1,340	1/16	2	0	0	65	88	624	18	0	0	0	48	0	754	1	406	0	55	✓
138	250	90	1/1	1	0	0	424	92	21	5	0	0	0	13	0	69	0	2	0	4	✓
139	252	990	1/2	1	0	0	31	103	512	31	0	0	8	33	0	343	25	254	0	1	✓
140	254	990	1/1	0	0	0	1	265	0	26	0	0	0	48	0	585	0	36	0	28	✓
141	256	260	1/1	0	0	0	42	0	27	4	0	0	0	11	0	1	0	5	0	0	✓
142	258	1,430	1/2	5	0	0	1	67	456	106	0	0	0	133	0	155	2	553	0	0	✓
143	260	1,060	1/1	0	0	0	1972	14	0	36	0	0	0	2	0	52	2	0	0	0	✓

W.H. Antarktis 75/76 RMT I hauls (contd.)

1	2	3	6	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
144	262	970	1/4	11	0	0	9	65	464	42	0	0	0	103	0	451	0	160	0	5	✓
145	264	310	1/1	1	0	0	315	7	5	7	0	0	0	12	0	112	0	4	0	1	✓
147	266	3,090	1/32	10	0	0	6	47	12,600	134	0	0	0	365	0	675	4	3,115	0	73	✓
148	268	3,000	1/32	8	0	3	0	46	25,600	13	4	0	0	221	0	779	0	336	0	2	✓
151	291	2,340	1/16	10	0	0	559	79	304	13	0	0	0	144	0	954	0	0	0	0	✓
153	273	2,640	1/1	12	0	0	0	329	0	24	0	0	0	3	0	942	0	0	0	24	✓
154	275	2,160	1/1	10	35	0	25	305	0	35	0	5	0	115	0	1055	18	60	0	10	✓
155	277	2,100	1/32	264	0	0	84	48	39,168	168	0	0	0	1049	0	332	0	268	0	9	✓
158	279	1,700	1/64	4	0	0	2	198	39,960	103	8	0	0	214	192	901	1	3633	0	2	✓
159	281	1,170	1/8	4	0	1	0	18	224	9	1	0	0	329	43	20	1	1969	0	7	✓
160	283	1,520	1/8	57	0	1	1	63	64	3	3	0	0	190	0	29	1	1,498	0	28	✓
161	285	1,320	1/1	5	0	10	782	147	14	5	0	7	0	0	0	35	1	3	0	2	✓
162	287	1,340	1/1	12	0	0	363	31	10	2	0	0	0	3	0	23	0	12	0	0	✓
163	289	1,240	1/1	8	0	0	8	168	21	1	0	2	0	2	0	23	0	126	0	2	✓
164	291	1,520	1/1	0	0	0	0	520	210	90	0	5	0	0	0	6,985	0	5	0	5	✓
165	293	1,160	1/1	3	0	0	0	63	1,380	45	0	0	0	3	0	3,609	0	1332	0	6	✓
166	295	1,160	1/32	4	0	0	0	39	7,840	24	1	0	0	264	64	497	0	2,536	0	3	✓
167	297	1,900	1/1	12	10	0	0	68	328	22	0	0	0	97	8	967	0	7	0	11	✓
168	299	1,700	1/32	5	0	16	0	16	1,280	50	6	0	0	0	0	57	0	30	0	4	✓
169	301	890	1/8	0	0	8	24	116	776	9	0	0	0	136	0	415	0	107	0	0	✓
168	303	1,880	1/1	0	0	4	3	48	13,180	44	0	0	0	364	102	681	54	3,685	0	24	✓
169	305	3,990	1/64	0	0	1	2	72	64	30	0	0	1	571	0	583	131	2839	0	0	✓

1	2	3	6	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
168	307	1,790	1/1	19	0	8	825	611	1324	161	2	0	0	6	0	920	0	151	0	56	✓
168	309	3,998	1/1	0	0	0	5	72	14	15	0	0	0	101	0	59	3	54	0	7	✓
168	311	2,010	1/64	26	0	0	4	13	2,039	329	2	0	0	134	0	145	0	1038	0	137	✓
168	313	890	1/16	2	0	0	11	563	368	33	0	1	1	64	0	288	0	489	0	81	✓
168	315	2,190	1/16	0	0	0	1	8	4,832	6	0	0	0	367	16	154	16	2261	0	16	✓
168	317	1,990	1/16	5	0	0	0	0	5,488	18	0	0	0	49	0	7	0	192	0	19	✓
168	319	5,530	1/64	6	1	0	4	95	10,624	103	3	0	1	333	512	305	131	7008	0	0	✓
168	321	1,065	1/128	5	0	3	16	40	21,632	16	0	0	1	131	0	276	0	2443	0	388	✓
168	323	4,620	1/32	3	0	0	47	71	744	39	0	0	3	400	0	594	19	5963	1	33	✓
168	325	2,090	1/32	2	0	0	1	35	2,150	72	0	0	0	761	0	612	32	4867	0	64	✓
168	329	3,180	1/64	0	0	1	1	28	45,184	91	0	0	0	1152	0	1400	1	10,136	0	66	✓
168	331	2,010	1/32	11	0	0	0	193	4,512	96	0	0	0	64	0	82	0	352	0	98	✓
168	333	4,446	1/1	1	0	0	4	69	935	64	0	0	1	480	130	1090	430	6030	0	111	✓
168	335	4,602	1/1	0	0	0	1	8	0	23	1	0	0	100	0	385	0	586	0	4	✓
168	337	4,290	1/64	0	1	0	0	19	640	161	0	0	0	628	0	366	1	3032	0	66	✓
168	339	1,060	1/32	1	0	0	0	9	512	41	0	0	0	260	0	236	14	5639	0	1	✓
168	341	2,820	1/32	2	0	0	1	100	10,112	16	2	0	0	888	0	1355	0	6312	0	38	✓
168	343	5,304	1/16	0	16	0	1	12	330	350	0	0	19	335	0	462	115	3664	0	1	✓
168	345	4,993	1/64	2	1	0	5	97	512	82	1	0	2	405	0	1016	23	3563	0	3	✓
168	347	2,190	1/1	36	3	2	1	20	3943	36	6	0	0	39	31000	302	0	35	0	8	✓
168	349	2,464	1/32	2	0	0	6	33	11,968	37	1	0	0	355	33	725	0	195	0	0	✓
168	351	1,014	1/16	5	0	0	7	126	2,416	26	3	0	0	240	0	721	0	193	0	16	✓
168	353	5,694	1/64	0	0	0	7	91	3904	106	0	0	1	672	0	1232	139	6667	0	0	✓

W.H. Antarctic 75/76 RMT I hauls (contd.)

1	2	3	6	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
168	355	2,310	1/128	27	0	0	2,192	668	8704	60	4	0	0	0	0	1123	0	0	0	0	✓
168	357	1,425	1/16	2	10	0	3616	114	2048	18	5	0	0	0	0	179	0	0	0	0	✓
168	359	530	1/32	4	32	0	2	76	4656	7	1	0	0	0	64	407	0	416	0	35	✓
168	360	1,170	1/32	13	0	0	4	122	5124	16	6	0	0	28	0	947	0	115	0	33	✓
168	362	2,280	1/16	30	0	0	6290	500	1440	20	0	0	0	0	0	2780	0	0	0	0	✓
168	366	4680	1/1	0	5	0	3	29	21	123	1	0	5	584	0	368	20	2780	0	34	✓
168	368	1,880	1/64	20	0	0	0	18	6208	391	4	0	0	1	0	491	0	112	0	10	✓
169	370	2,550	1/1	0	0	0	116	408	318	25	1	0	0	3	31	164	27	23	0	0	✓
170	372	2,370	1/1	2	0	0	3	108	0	9	0	0	0	25	0	48	11	33	0	1	✓
173	374	2,640	1/1	0	0	0	578	729	0	7	2	0	0	3	0	13	3	11	0	0	✓
176	376	2,730	1/1	5	0	2	5	46	41	232	0	0	0	493	0	0	60	736	0	11	✓
183	378	1,790	1/8	0	0	0	0	56	520	9	1	0	0	1,708	0	9	5	626	1	7	✓
185	380	1,430	1/16	9	0	0	0	23	48	248	0	0	0	262	0	0	70	634	0	56	✓
186	382A	530	1/1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	15	0	1	✓
186	382B	1430	1/32	4	0	0	0	7	128	588	0	0	5	1345	0	282	73	3302	1	39	✓
188	384	1,430	1/1	7	0	14	0	21	392	266	7	0	0	1082	189	7	84	574	7	105	✓
189	386	2,280	1/1	16	7	8	46	301	76	269	0	0	1	1198	9	33	167	894	2	44	✓
190	388	1,150	1/4	0	0	0	22	0	83	45	0	0	1	711	0	0	7	500	0	2	✓
193	390	2,370	1/8	9	0	0	17	58	104	44	0	0	0	228	0	12	0	31	0	3	✓
195	392	1.150	1/1	2	0	0	0	21	1	45	8	0	0	188	0	0	12	375	0	2	✓
217	394	2,190	1/32	8	0	0	0	117	3648	1293	0	0	0	2378	0	431	0	0	0	4	✓
218	396	2,170	1/16	0	48	0	0	3191	0	406	0	0	0	374	0	623	0	2	0	4	✓
219	398	1880	1/1	0	0	0	17	20	53	66	1	0	0	35	0	556	0	3	0	1	✓

H.H. Antarctis 75/76 RMT I hauls (contd.)

1	2	3	6	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
220	400	420	1/8	0	0	0	10	0	108	14	0	0	0	57	6	3	0	0	0	0	✓
223	401	1,060	1/1	0	0	0	0	0	0	70	0	0	0	0	0	5453	0	0	0	1	✓
225	403	1600	1/1	0	0	0	47	10	0	49	0	0	0	0	0	528	0	0	0	0	✓
226	404	3,870	1/1	0	1	0	0	27	0	211	0	0	0	1	0	1,224	4	1	0	0	✓
231	408	2,010	1/1	0	0	0	3	24	6	47	0	0	0	5	0	515	0	0	0	0	✓
240	409	1,160	1/1	14	0	0	2	198	248	32	0	0	0	125	0	802	0	3	0	0	✓
241	412	1,240	1/16	17	0	0	2	237	1,856	41	0	0	0	529	0	1370	1	49	0	1	✓
242	414	2,460	1/1	1	0	1	1	1	97	47	0	0	0	13	0	796	0	0	0	2	✓
243	416	2,280	4/10	23	70	0	0	578	5170	183	0	3	0	1,190	680	740	0	373	1	44,300	✓
244	418	3,180	1/32	32	0	0	0	187	8,000	610	0	0	0	361	0	2,435	0	1	0	+	✓
267	1	2,100	1/32	72	0	0	0	6/16	330	712	0	64	0	4,334	3,320	3	0	330	0	3,424	✓
270	2	3,090	1/32	78	0	0	0	650	13,568	487	0	0	0	2,848	64	398	0	1472	0	1216	✓
272	3	530	1/1	4	0	0	463	0	3	4	0	0	0	0	0	0	0	0	0	0	0
276	4	4,500	1/8	19	0	0	4	35	1048	334	20	0	0	35	0	230	0	1	1	1353	✓
278	5	3,180	1/32	66	0	0	97	250	1813	575	0	0	0	316	0	1034	0	33	0	32	✓
283	6	3,840	1/16	112	0	0	0	1334	2780	328	0	0	0	448	16	96	1	32	0	90	✓
285	7	3,630	1/1	1	0	1	0	24	0	25	4	0	0	450	0	3	30	423	0	0	✓
287	9	3,840	1/32	31	0	0	6003	77	32	39	0	0	0	643	0	0	5	139	1	0	✓
292	9	3,270	1/1	3	0	0	1	15	115	32	3	0	0	28	0	0	17	72	0	0	✓
298	10	4,190	1/1	40	58	2	0	1160	2686	134	0	0	0	1532	42	20	0	60	0	+	✓
299	11	3,450	1/32	134	0		0	29	3768	581	0	0	0	4682	0	0	0	0	0	2688	✓
310	13	4,440	1/8	70	0	0	0	28	712	330	0	0	0	184	0	16	0	0	0	24	✓

1	2	3	6	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
312	14	4,900	1/8	112	3	0	44	440	176	175	0	0	0	4[illegible]	0	0	5	59	0	8	✓
315	15	3,540	1/8	13	3	1	10	33	32	182	0	0	0	744	0	0	55	136	1	0	✓
317	16	1,970	1/8	7	1	1	49	624	80	40	0	0	0	212	8	0	77	55	0	0	✓
320	17	3,080	1/4	0	0	0	1144	402	164	85	0	0	0	13	0	0	21	274	0	4	✓
321	18	3,180	1/32	2	3	0	44	15	416	355	0	0	0	160	0	0	89	370	1	32	✓
323	19	4,080	1/32	15	16	0	1	101	1440	172	0	1	0	2,358	0	61	38	1100	0	2	✓
324	20	3,720	1/32	18	17	0	2641	181	96	154	0	0	0	741	0	1	3	2	0	64	✓
326	21	7,475	1/8	43	8	0	5	2	1256	251	0	0	0	1,912	0	0	13	33	0	0	✓
327	22	4,440	1/32	71	0	0	837	976	1408	364	0	0	0	5,184	0	5	24	1574	0	32	✓
330	24	4,990	1/4	0	3	0	3	1	12	0	0	0	0	302	0	0	0	9	0	0	✓
332	25	3,540	1/16	49	32	0	509	125	704	102	0	0	0	1280	384	0	36	76	0	1	✓
335	26	2,380	1/4	18	2	1	2947	60	376	142	0	0	0	458	0	0	5	60	1	195	✓
336	27	4,720	1/1	4	0	0	2720	255	509	15	0	0	0	2	0	0	9	2	0	0	✓
338	29	3,090	1/1	17	0	2	7	0	59	22	0	0	0	61	0	9	2	0	0	3	✓
341	30	1,180	1/1	38	0	0	2	1908	0	105	0	0	165	435	23	0	2	27	0	730	✓
346	31	1,790	1/1	19	0	2	0	0	516	14	0	0	111	117	0	0	0	0	0	1	✓
347	32	350	1/1	3	0	0	0	187	0	6	0	0	167	149	0	0	0	27	0	1	✓
348	33	190	1/1	0	0	0	0	223	0	3	0	0	179	228	0	0	0	19	0	0	✓
349	34	260	1/1	2	0	0	0	128	0	4	0	0	68	130	0	0	0	10	0	0	✓
354	35	3,720	1/128	21	0	0	26	48	6016	268	0	0	269	3342	0	0	0	3	0	0	✓
356	36	4,720	1/128	130	0	0	7	8231	0	139	0	0	0	655	0	0	0	1	0	769	✓
359	37	3,730	1/8	49	0	0	31	25	1,440	212	0	0	0	1674	0	0	0	16	0	49	✓

W.H. Antarktis 75/76 RMT I hauls (contd.)

1	2	3	6	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
358	38	2,190	1/32	205	0	0	0	205	4,672	307	0	0	0	3,785	0	0	25	250	0	3,787	✓
359	39	2,640	1/16	91	0	0	0	51	1,872	501	0	0	0	1,350	0	0	352	64	1	1,280	✓
361	41	4,350	1/64	208	4	3	0	218	512	121	0	0	0	4,107	0	0	0	448	0	6	✓
362	42	4,080	1/16	6	33	0	306	251	64	0	1	0	0	482	0	0	6	96	1	12	✓
364	43	5,310	1/32	3	0	0	1470	11	5,564	18	0	0	0	1312	0	0	51	1786	0	1	✓
365	44	440	1/16	0	0	0	300	0	1792	21	0	0	0	145	0	0	3	370	0	0	✓
366	45	400	1/8	0	0	0	148	0	1,592	14	0	0	0	160	0	1	0	281	0	0	✓
367	46	560	1/32						5,344	35				332				481			✓
368	47	400	1/16	0	0	0	574	4	1,168	51	0	0	0	346	0	3	0	340	0	0	✓
369	48	400	1/16	0	0	0	644	0	848	1	0	0	0	309	0	0	0	144	0	0	✓
370	49	400	1/16	0	0	0	155	0	1,504	19	0	0	0	328	0	3	0	501	0	0	✓
371	50	400	1/16	0	0	0	890	1	1,040	19	0	0	0	265	0	0	0	197	0	0	✓
372	51	360	1/32	0	0	0	1,592	0	928	21	0	0	0	64	0	0	1	448	0	0	✓
373	52	360	1/16	0	0	0	484	0	896	1	0	0	0	373	0	2	0	337	0	48	✓
374	53	360	1/1	0	0	0	184	0	1001	3	0	0	0	189	0	0	1	60	0	0	✓
376	54	3,460	1/32	7	1	0	647	7	3,136	132	1	0	0	161	0	0	22	1568	0	2	✓
377	55	2,550	1/16	22	0	0	528	1	2,656	69	0	0	0	161	0	0	5	610	2	16	✓
378	56	2,280	1/16	8	1	0	1,181	6	2,444	92	1	0	0	105	0	4	7	1,178	0	48	✓
379	57	4,350	1/4	5	0	0	1,827	0	5,184	9	0	0	0	1,392	0	23	83	3,615	0	1	✓
383	59	5,530	1/16	27	0	4	7	1633	1,172	99	0	0	0	426	0	33	38	7	0	59	✓
386	60	2,190	1/32	5	0	0	0	2	544	64	0	0	0	3674	32	0	19	1,794	0	0	✓

W.H. Antarktis 75/76 RMT I hauls (contd.)

1	2	3	6	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
388	61	2,910	1/1	0	0	0	42	8	12	28	0	0	0	242	0	1	0	118	0	10	✓
389	62	3,360	1/32	40	32	0	217	1	640	161	0	0	0	552	0	1	14	1570	0	2	✓
390	63	4,300	1/16	11	4	1	139	56	368	236	1	0	0	831	0	3	63	1635	0	96	✓
391	64	5,110	1/32	68	0	0	31	75	1312	321	1	0	0	3121	928	3	663	7334	0	35	✓
392	65	4,560	1/32	64	32	0	18	0	1,472	449	2	0	0	3315	896	0	664	3,496	0	4	✓
394	66	6,200	1/4	37	2	0	0	60	72	56	0	0	0	761	8	0	56	80	0	14	✓
395	67	6,630	1/1	88	0	0	0	5	110	58	0	0	0	2815	0	0	132	12	0	13	✓
400	69	1,880	1/16	0	0	2	0	830	240	98	0	0	0	3549	0	0	114	117	1	56	✓
401	70	2,640	1/32	64	0	0	0	233	2,560	443	0	0	0	3291	0	11	128	142	0	1	✓
402	71	5,090	1/32	224	0	0	0	0	768	202	0	0	0	6747	640	0	0	128	0	65	✓
404	73	6,350	1/32	0	0	0	0	0	4,096	53	0	0	0	5144	0	0	0	96	0	3	✓

"P. Antarktis 75/76 RMT 8 hauls

1	2	3	8	9	10	11	12	13	15	16	18	19	21	22	23	24	25	28
4	2		0	61	16	1	0	350	365	4	0	937	898	337	0	4	27	✓
5	3		0	99	4	1	0	685	677	1	0	1,652	5,993	1151	19	10	115	✓
6	4		2	2	0	0	0	67	23	0	0	97	+	29	0	0	1	✓
7	5	29,760	0	33	6	122	0	336	135	0	0	4,505	1251	0	5	8	7	✓
8	8	20,400	0	23	4	140	0	206	225	0	0	1,233	23	0	0	1	0	✓
9	9	31,920	3	93	90	1	0	474	302	0	0	6,243	1,054	17	14	5	4	✓
10	10	36,880	0	97	0	11	0	36	901	0	0	736	62	0	0	11	66	✓
11	11	34,160	0	50	0	2	0	843	457	0	0	378	317	0	1	13	109	✓
12	12	23,584	0	6	0	0	0	30	347	0	0	1,165	106	0	0	2	120	✓
20	51	26,160	1	27	0	2	0	609	592	1	0	348	26	0	1	5	73	✓
21	53	18,960	0	3	1	0	0	32	14	0	0	1	55	0	0	0	57	✓
22	55	15,040	0	0	0	2	0	0	18	0	0	595	3252	0	21	1	355	✓
23	57	11,760	0	2	0	2	4	1197	3	0	0	24	104	7	21	2	34	✓
26	69	17,168	21	7	2	2	10,567	2,878	104	21	0	21	17,346	37	43	1	35	✓
25	61	19,024	0	5	4	11	296	978	95	0	0	761	5,178	101	24	1	37	✓
25	63	13,204	0	9	0	0	2	5	24	0	0	111	315	2	29	2	201	✓
25	65	23,280	0	4	0	0	10	110	56	0	0	757	217	33	38	2	1418	✓

W.H. Antarktis 75/76 RMT 8 hauls (contd.)

1	2	3	8	9	10	11	12	13	15	16	18	19	21	22	23	24	25	26
25	67	16,000	2	1	0	11	0	441	62	0	0	15	2,608	0	3	2	205	✓
25	69	21,120	1	12	0	1	0	148	129	0	0	27	1,662	0	1	2	117	✓
25	71	18,560	0	48	0	3	0	18	532	0	0	1,178	47	0	3	3	51	✓
25	73	10,720	0	16	0	12	0	59	318	0	0	895	2	10	4	1	42	✓
25	75	12,528	64	93	0	16	1	769	755	0	0	593	663	0	23	5	152	✓
26	77	10,720	0	20	0	0	0	236	997	0	0	606	502	0	15	5	584	✓
26	79	7,280	0	54	0	0	0	279	1910	0	0	486	46	0	32	1	439	✓
26	81	23,200	5	24	0	15	0	351	243	0	0	38	714	0	69	0	396	✓
26	83	33,960	129	126	0	3	0	1485	1071	0	0	1041	1173	0	33	16	271	✓
26	85	29,320	3	3	0	0	0	51	119	0	0	57	1326	0	7	1	91	✓
26	87	29,320	0	8	0	2	2	40	112	0	0	1,032	792	44	39	0	672	✓
26	89	30,350	0	35	0	8	1,465	136	176	0	0	695	3,626	14	103	1	251	✓
26	91	30,350	27	10	0	5	2,117	2,389	111	2	0	669	562	13	65	3	231	✓
26	93	32,640	279	46	4	5	2,139	3,459	28	3	0	263	25	288	40	2	19	✓
26	95	29,320	0	0	0	19	17	475	131	1	0	158	806	295	109	0	86	✓
26	97	28,320	0	21	4	7	1,838	3,131	60	4	0	579	128	145	41	2	55	✓
27	99	28,806	0	53	4	17	1,835	3,727	56	37	0	361	4	613	77	6	131	✓
27	101	25,720	0	13	1	15	38	444	51	0	0	1,266	2427	341	44	4	126	✓

W.H. Antarktis 75/76 RMT 8 hauls (contd.)

1	2	3	8	9	10	11	12	13	15	16	18	19	21	22	23	24	25	26
27	103	22,400	3	26	0	11	5	1,173	69	0	1	1895	8120	171	48	6	160	✓
27	105	31,200	4	4	4	4	50900	1548	96	0	0	488	4524	64	40	8	556	✓
27	107	35,520	3	10	0	65	60	1187	157	0	0	286	3770	3	77	5	312	✓
27	109	34,800	0	22	0	14	7,427	2,938	57	0	0	408	2958	698	206	3	481	✓
27	111	31,200	68	10	0	8	30	2,965	192	0	0	224	4,249	11	82	6	484	✓
27	113	24,720	0	33	0		1	202	192	0	0	95	2,582	0	34	3	2369	✓
27	115	35,520	0	104	1	50	6	4,786	467	0	0	270	2,034	30	88	16	557	✓
27	117	25,120	5	259	0	27	16	4,249	242	2	0	1449	398	18	72	7	655	✓
29	119	9,200	0	100	0	0	3	13	58	132	7	18	87	0	12	2	2179	✓
30	121	12,800	0	48	0	0	6	295	35	33	0	444	108	3	37	0	195	✓
35	123	28,320	0	281	0	4	5	767	370	0	127	1349	3	2	55	1	432	✓
36	125	9,920	0	58	0	0	46	3	96	0	1287	150	3	0	23	0	118	✓
37	127	20,400	0	29	0	0	64	40	34	15	0	253	282	0	18	0	24	✓
43	129	16,800	0	61	0	3	89	1,698	166	19	65	2239	41	5	172	3	721	✓
44	131	8,480	0	48	0	5	55	135	9	38	7	63	0	0	100	1	168	✓
45	133	4,900	1	53	0	0	3	164	99	15	37	215	0	1	38	0	396	✓
46	135	7,760	0	66	0	0	68	161	586	99	1037	365	2	0	36	3	578	✓
47	137	4,960	279	1	0	0	9719	16	143	163	0	94	0	0	19	0	67	✓

W.H. Antarktis 75/76 RMT hauls (contd.)

1	2	3	8	9	10	11	12	13	15	16	18	19	21	22	23	24	25	26
48	139	11,360	0	19	0	2	18	2,998	142	0	0	530	359	2	39	4	348	✓
50	141	20,717	0	11	0	0	85	85	323	0	0	248	956	10	27	0	655	✓
52	143	15,040	0	1	0	4	1,284	112	106	1	0	26	3497	61	36	1	48	✓
53	145	10,280	0	0	0	0	19340	1600	300	0	0	50	4475	40	60	0	60	✓
54	147	12,160	0	10	0	1	5262	1282	124	0	0	50	1977	25	34	2	39	✓
55	149	12,160	20	20	0	10	2230	50	3220	0	0	4070	13260	0	370	0	1370	✓
58	151	24,720	0	84	0	0	1638	0	220	0	0	630	7630	14	112	0	434	✓
59	153	29,040	219	51	5	16	8731	3939	373	0	0	1667	11328	2464	131	0	221	✓
60	155	16,800	0	196	0	112	252	5320	4032	0	0	8400	4858	84	560	0	11312	✓
61	157	7,760	2	30	4	1	0	1172	153	4	462	355	578	0	15	1	575	✓
62	159	15,760	0	8	0	0	0	176	636	0	0	138	1448	16	23	0	422	✓
63	161	9,280	5	74	0	0	1623	143	33	120	857	6	150	0	1	0	30	✓
64	163	15,040	0	167	0	0	71	91	111	210	2033	238	234	0	4	4	90	✓
65	165	31,920	20	20	0	0	40	1000	300	0	0	340	5820	0	0	20	220	✓
66	167	16,080	0	14	0	0	14	42	308	0	0	196	3332	0	42	14	630	✓
68	169	12,800	0	36	0	48	0	144	132	0	0	588	1908	0	24	0	312	✓
69	171	10,720	44	407	0	0	520	0	287	1200	7872	52	32	0	12	0	336	✓
70	173	9,280	0	238	0	7	71	158	274	315	242	10	13	0	9	0	723	✓

W.H. Antarktis 75/76 RMT 8 hauls (contd.)

1	2	3	8	9	10	11	12	13	15	16	18	19	21	22	23	24	25	26
71	175	9,280	0	56	0	0	0	201	168	31	2	96	395	0	20	2	293	✓
73	177	10,720	0	16	0	3	0	1014	296	0	132	248	682	0	23	1	926	✓
74	179	9,920	0	175	0	2	8	70	118	293	2,178	260	1	3	77	1	301	✓
75	181	9,760	0	96	0	0	551646	0	48	0	0	336	0	0	0	0	0	✓
77	183	5,680	6	39	0	0	36	8	214	96	0	46	0	0	151	0	16	✓
80	187	6,280	1	30	0	0	3924	12	48	224	2	223	0	0	24	0	240	✓
81	188	2,880	0	218	0	0	5	4	122	318	0	84	1	3	11	0	50	✓
82	189	3,520	0	280	0	0	63	4	121	158	0	38	0	0	0	0	36	✓
86	190	2,880	0	368	0	0	7	3	592	681	0	0	0	0	1	0	6	✓
87	191	6,000	0	73	0	0	14	6	312	29	0	21	0	0	3	0	23	✓
88	192	6,400	0	334	0	0	5	0	1401	0	0	9	0	0	2	0	15	✓
89	193	7,760	0	328	0	0	2178	0	566	33	3	5	0	0	0	0	3	✓
90	194	7,120	0	354	0	0	6	0	433	31	0	1	0	0	0	0	8	✓
91	195	7,120	0	456	0	1	8	0	842	21	0	2	0	0	0	0	8	✓
93	196	15,760	0	28	0	10	8	4	224	31	0	56	426	0	1	1	441	✓
95	198	12,160	0	111	0	51	8	14	261	1	0	315	11	0	13	0	215	✓
98	201	12,480	0	31	1	1	2	332	181	4	0	1552	6	257	15	5	4	✓
100	203	34,080	0	10	0	11	8	941	128	0	0	253	1956	0	5	3	20	✓

1	2	3	8	9	10	11	12	13	15	16	18	19	21	22	23	24	25	26
103	205	18,240	50	17	0	0	0	3426	324	1	0	372	8309	0	4	6	30	✓
105	207	18,960	7	18	0	8	0	1409	208	13	0	1477	212	346	24	4	58	✓
107	209	20,400	19	117	0	7	0	7417	67	27	0	1015	16	99	5	5	13	✓
110	213	21,680	3	18	0	0	0	610	180	0	0	2000	34	0	130	5	0	✓
111	215	13,600	0	8	0	8	0	215	72	2	0	768	0	8	0	3	10	✓
112	217	9,280	0	58	0	0	0	10	47	0	0	137	0	0	1	1	0	✓
113	219	12,116	0	47	0	38	0	329	35	1	0	330	13	0	0	2	1	✓
114	221	13,600	29	5	0	3	0	992	83	1	0	886	0	5	1	8	5	✓
115	223	9,280	4	8	0	6	0	683	58	1	0	465	1	0	1	10	3	✓
116	225	20,400	0	>11	0	0	0	>37	>30	0	>1	+	>4	0	0	>14	>8	✓
120	227	9,280	0	0	0	0	0	35	133	0	0	371	4081	0	0	0	63	✓
121	229	10,640	0	4	0	0	7	18	39	0	0	161	1040	0	27	0	21	✓
123	231	11,440	0	0	0	0	0	122	61	0	0	0	36173	0	61	0	0	✓
124	233	9,920	0	60	0	0	4140	60	120	0	0	0	33340	0	0	0	0	0
125	235	13,600	0	42	0	0	150	786	54	6	0	204	5052	0	0	0	0	✓
126	237	10,720	0	5	0	0	0	15	6	0	0	10	948	17	0	0	2	✓
127	239	21,120	0	28	0	6	1117	501	74	0	0	6	5280	6	6	0	0	✓
128	241	9,920	0	45	0	0	0	585	15	5	0	10	6635	0	5	0	0	✓
129	243	13,600	0	42	0	0	778	2394	147	168	0	0	19677	0	0	0	0	✓

W.H. Antarktis 75/76 RMT 8 hauls (contd.)

1	2	3	8	9	10	11	12	13	15	16	18	19	21	22	23	24	25	26
130	245	12,160	0	11	0	0	0	55	22	0	0	99	10430	0	0	0	0	✓
132	246	4,440	0	0	0	0	24	240	72	0	0	0	43056	0	0	0	0	0
137	248	19,720	17	34	0	0	68	459	119	0	0	170	20508	0	0	0	34	✓
138	250	720	0	1	0	0	261	129	18	0	0	3	218	0	0	0	5	✓
139	252	7,760	0	0	0	0	820	285	45	0	0	20	1420	0	0	0	0	✓
140	254	6,320	0	0	0	0	9	486	225	0	0	27	6417	0	0	0	18	✓
141	256	2,080	0	0	0	0	658	217	42	0	0	0	2009	0	0	0	0	✓
142	258	11,440	8	4	0	0	12	68	88	0	0	24	1592	0	0	0	0	✓
143	260	8,480	0	14	0	0	3484	446	488	0	0	26	2024	8	2	4	0	✓
144	262	7,760	0	0	0	0	41	180	49.5	0	0	18	2178	0	0	0	0	✓
145	264	2,480	0	0	0	0	42269	50	34	0	0	0	2898	0	0	0	0	✓
147	266	24,720	0	21	0	0	21	420	70	0	0	259	7861	7	7	0	7	✓
148	268	24,000	32	0	0	0	64	544	608	0	0	352	34048	0	0	0	32	✓
149	270	6,720	0	0	0	0	567	63	72	0	0	99	9162	9	0	0	0	✓
151	271	18,360	0	0	0	0	632	10	0	0	0	0	43	0	0	0	0	✓
153	273	21,120	0	0	0	0	0	2	5	0	0	0	354	0	0	0	0	✓
154	275	17,280	0	0	0	0	22	529	133	0	0	23	10189	0	0	0	23	✓
155	277	16,800	0	0	0	0	192	252	78	0	0	0	6398	0	24	0	0	✓

W.H. Antarktis 75/76 RMT 8 hauls (contd.)

1	2	3	8	9	10	11	12	13	15	16	18	19	21	22	23	24	25	26
158	279	13,600	10	10	0	10	30	3390	70	20	0	200	10030	20	0	0	0	✓
159	281	9,360	0	12	0	0	0	167	1	2	0	3	336	17	1	0	4	✓
160	283	12,160	53	166	0	2	1	51	2	3	0	20	62	14	0	0	2	✓
161	285	14,160	0	0	0	0	22153	0	0	21	0	0	546	0	0	0	0	✓
162	287	10,720	21	7	0	0	8589	21	7	0	0	0	266	0	0	0	14	0
163	289	9,920	3	6	0	0	24	769	0	0	0	0	14	1	1	0	5	✓
164	291	12,160	0	47	0	0	47	1598	198	0	0	0	50102	0	0	0	0	✓
165	293	9,280	0	0	0	0	0	275	125	0	0	0	32450	0	0	0	0	✓
166	295	9,280	14	14	0	7	77	700	98	7	0	0	6986	0	0	0	7	✓
167	297	15,200	0	0	0	0	0	50	8	0	0	4	951	0	0	0	2	✓
168	299	13,600	0	16	0	0	0	118	42	8	0	0	1044	0	0	0	20	✓
168	301	7,120	0	0	0	33	165	447	21	3	0	3	2241	0	0	0	0	✓
168	303	15,040	64	4	0	0	28	356	64	4	0	0	4644	4	12	0	4	✓
168	305	31,920	60	0	0	0	60	767	83	0	10	460	12527	163	50	0	3	✓
168	307	14,320	9	0	0	0	36364	2265	136	0	0	14	2580	0	0	0	0	✓
168	309	31,824	3	14	0	0	37	870	66	0	0	226	2017	32	25	0	2	✓
168	311	16,080	2	124	0	0	1	44	160	20	0	11	1969	0	0	0	5	✓
168	313	7,120	0	9	0	0	89	3404	29	4	0	16	4895	0	9	0	1	✓
168	315	17,520	67	7	0	3	1047	417	87	0	0	450	12057	3	7	0	0	✓

AYT 8 hauls (contd.)

1	2	3	8	9	10	11	12	13	15	16	18	19	21	22	23	24	25	26
168	317	15,760	0	31	0	0	0	0	72	7	0	0	3013	0	0	0	14	✓
168	319	44,240	279	0	0	0	90	1044	99	9	0	234	2366	18	0	0	0	✓
168	321	8,520	15	20	0	200	730	255	55	0	0	55	6825	0	0	0	0	✓
168	323	36,960	53	20	0	0	2903	690	120	0	0	300	8510	57	17	0	7	✓
168	325	16,720	12	7	0	1	28	210	28	5	0	160	5327	2	1	0	2	✓
168	327	9,240	0	0	0	0	37,007	210	0	0	0	0	897	0	0	0	0	✓
168	329	35,440	170	0	0	10	60	430	40	0	0	500	17020	30	20	0	0	✓
168	331	14,080	0	45	0	0	0	898	50	11	0	1	1430	0	1	0	1	✓
168	333	35,868	7	9	0	11	14	218	45	0	0	115	467	41	10	0	1	✓
168	335	36,816	8	2	1	1	12	260	129	0	4	280	5038	32	6	1	0	✓
168	337	34,320	1	4	2	3	12	168	84	2	11	269	3979	83	2	0	4	✓
168	339	8,480	0	1	0	0	1	12	10	2	0	48	31	2	1	0	1	✓
168	341	22,560	61	13	0	0	16	525	63	3	0	0	9707	3	0	0	13	✓
168	343	42,432	49	3	0	3	45	315	753	0	87	427	8736	12	0	0	12	✓
168	345	34,944	5	0	0	0	14	321	51	3	6	133	4618	94	24	0	3	✓
168	347	11,520	0	80	0	0	0	93	43	0	0	2	3394	0	0	0	2	✓
168	349	17,312	128	24	0	0	4692	688	116	5	0	88	16852	0	8	0	0	✓
168	351	8,112	//	0	0	3	115	896	35	13	0	8	3003	0	3	0	11	✓

W.F. Antarktis 75/76 RMT 8 hauls (contd.)

1	2	3	8	9	10	11	12	13	15	16	18	19	21	22	23	24	25	26
168	353	45,552	174	18	0	0	54	660	138	6	18	366	12852	108	36	0	0	✓
168	355	23,280	0	30	0	0	19040	1050	90	0	0	0	6090	0	0	0	0	✓
168	357	11,400	20	0	0	0	95580	740	0	20	0	0	2680	0	0	0	0	✓
168	359	4,240	12	16	0	3	12	315	21	3	0	27	6736	0	1	0	5	✓
168	360	9,360	32	45	0	0	91	707	67	3	0	8	13717	0	0	0	0	✓
168	362	18,240	1	18	0	0	170	738	41	0	0	2	9618	0	0	0	2	✓
168	364	21,840	139	5	5	0	309	363	80	3	0	475	18037	5	8	0	0	✓
168	366	37,440	18	0	0	2	4	24	314	0	14	226	6750	18	4	0	0	✓
168	368	15,040	0	40	0	0	0	2	168	2	0	0	2274	0	0	0	1	✓
169	370	20,400	51	0	0	2	2333	1519	35	14	0	2	12273	84	7	0	2	✓
170	372	18,960	0	0	0	15	120	547	5	0	0	45	273	146	11	0	1	✓
173	374	21,120	0	0	0	0	3665	1988	0	0	0	14	19	5	0	0	0	✓
176	376	21,840	0	6	0	3	26	130	12	9	0	27	0	419	14	2	9	✓
183	378	14,320	1	20	0	7	12	190	37	10	0	112	34	139	54	3	15	✓
185	380	11,440	0	30	0	0	0	165	29	11	0	93	39	81	38	3	59	✓
186	382	4,240	0	8	0	0	1	14	4	3	0	11	1	0	0	0	19	✓
186	384	11,440	0	10	1	1	0	21	12	12	0	149	0	71	34	0	32	✓
188	384	11,440	0	15	0	2	0	42	37	6	0	389	0	128	106	7	87	✓

N.H. Antarktis 75/76 RMT 8 hauls (contd.)

1	2	3	8	9	10	11	12	13	15	16	18	19	21	22	23	24	25	26
189	386	18,240	0	9	0	3	1911	1926	63	2	0	534	427	287	35	7	35	✓
190	388	9,200	0	8	0	0	194	137	2	3	0	153	13	27	13	0	18	✓
193	390	18,960	3	1	0	0	113	660	10	10	0	23	74	53	6	0	11	✓
195	392	9,200	0	7	0	10	7	192	27	6	0	92	1	8	4	0	7	✓
217	394	1,520	4	5	0	24	0	1465	1059	0	0	73	659	0	0	21	54	✓
218	396	17,360	3	4	0	0	1	618	649	0	0	254	3437	0	2	8	108	✓
219	398	15,040	0	0	0	0	468	129	219	0	0	18	6087	6	3	0	3	✓
220	400	4,960	1	0	0	0	214	247	424	0	0	0	110	0	8	0	0	✓
223	401	8,480	0	0	0	0	0	6	58	0	0	0	2190	0	0	0	0	✓
225	403	12,800	0	0	0	0	440	103	360	0	0	0	5220	0	3	0	0	✓
226	404	16,160	0	0	0	0	7	50	100	0	0	10	4653	0	0	0	0	✓
227	406	15,870	0	0	0	0	350	260	300	0	0	0	14630	0	0	0	0	✓
239	408	16,080	0	0	0	0	63	126	231	0	0	0	2369	0	0	0	0	✓
240	409	9,200	3	6	0	0	18	639	171	0	0	27	8352	0	9	0	0	✓
241	412	9,920	3	10	0	3	10	1210	193	0	0	33	8250	0	17	0	3	✓
242	414	19,680	0	0	0	4	25	5	72	0	0	1	4418	8	7	0	1	✓
243	416	18,240	0	7	0	0	0	23	223	0	0	93	2617	0	7	0	17	✓
244	418	25,440	22	4	0	4	2	1654	1173	0	0	44	14584	0	0	2	22	✓

W.H. Antarktis 75/76 RMT 8 hauls (contd.)

1	2	3	8	9	10	11	12	13	15	16	18	19	21	22	23	24	25	26
264	4/7	12,160	4	1	0	0	7	641	244	0	0	66	731	0	1	0	2	✓
267	1	4,800	0	20	0	0	0	65	108	0	0	1908	44	0	0	0	0	✓
270	2	24,720	110	15	0	0	7	2925	21	0	0	380	3101	1	0	1	0	✓
272	3	4,240	0	1	0	0	683	2	1	0	0	2	1	0	0	0	0	0
274	4	36,000	0	2	0	1	0	0	277	0	0	27	1555	0	0	3	2	✓
278	5	15,440	76	4	0	7	43	1979	156	0	0	9	9805	9	42	13	7	✓
283	6	30,720	50	0	0	11	578	46	332	0	0	21	1478	40	44	5	1	✓
285	7	29,040	0	3	0	1	2	186	18	0	0	47	132	15	1	1	5	✓
287	8	30,720	0	3	0	0	52029	0	9	3	0	33	3	102	3	0	0	✓
292	9	26,160	1	9	0	2	12	207	18	0	4	23	0	118	0	2	3	✓
298	10	33,360	1	1	0	2	0	143	677	0	0	5	30	0	2	1	0	✓
299	11	27,600	0	2	0	1	0	2	575	0	0	61	0	0	0	1	1	✓
310	13	36,520	1	1	1	0	4	2	2003	0	0	0	0	11	0	0	1	✓
312	14	39,200	64	0	1	6	790	955	2068	0	0	41	45	47	6	1	1	✓
315	15	28,320	0	5	0	9	5004	297	36	0	0	46	0	103	24	2	1	✓
317	16	15,760	23	9	0	0	629	919	177	4	0	26	51	36	4	2	0	✓
320	17	24,640	2	5	0	0	9731	111	7	6	0	15	0	303	1	2	0	✓

W.H. Antarktis 75/76 RMT 8 hauls (contd.)

1	2	3	8	9	10	11	12	13	15	16	18	19	21	22	23	24	25	26
321	18	25,440	0	1	2	0	1070	5	14	0	0	5	0	116	14	3	0	✓
322	19	29,640	0	16	3	0	18	44	43	1	0	230	328	809	90	4	5	✓
324	20	29760	0	20	5	0	14020	250	3355	0	0	15	0	50	15	0	0	✓
326	21	57,960	0	18	1	14	199	94	681	4	0	554	0	154	12	7	0	✓
327	22	36,580	133	8	2	0	19,344	1373	415	1	0	5	391	205	4	4	2	✓
328	23	34,080	11	0	0	0	0	0	38	0	0	0	0	0	5	0	3	✓
330	24	39,920	0	0	14	3	999	191	263	0	0	77	3	164	0	4	1	✓
332	25	28,320	12	5	0	13	6332	344	326	0	0	19	7	175	1	6	0	✓
335	26	19,040	0	0	0	0	55512	456	24	0	0	0	0	84	0	0	0	0
336	27	37,760	252	0	0	12	34276	0	92	0	0	12	0	72	0	0	0	✓
337	28	30,480	2	13	35	18	725	3	39	0	0	339	0	137	58	2	24	✓
338	29	24,720	4	4	1	9	139	5	70	0	0	4	26	17	2	1	70	✓
341	30	15,040	0	2	0	0	41	6	830	0	2156	11	0	0	0	0	14	✓
346	31	14,320	0	11	0	0	5	0	27	0	582	22	0	0	0	0	7	✓
347	32	2,800	0	12	0	1	0	0	11	0	619	239	0	0	0	0	2	✓
348	33	1,520	0	7	0	0	0	1	7	0	831	263	0	0	1	0	1	✓
349	34	2,080	1	8	0	0	1	276	9	0	601	242	0	0	4	0	3	✓
354	35	29,760	0	33	0	0	414	762	158	6	322	211	0	0	5	0	5	✓

1	2	3	8	9	10	11	12	13	15	16	18	19	21	22	23	24	25	26
356	36	37,760	63	2	0	3	73	600	67	0	0	35	15	0	2	2	1	✓
357	37	29,760	2	4	0	10	2852	252	21	0	0	1	0	0	0	0	0	✓
358	38	17,520	10	10	0	0	0	1640	62	0	0	300	1	0	6	2	34	✓
359	39	21,120	1	18	0	3	0	127	31	0	0	257	1	0	1	2	0	✓
360	40	40,640	83	4	0	10	11	4364	10	0	0	194	1	0	1	3	20	✓
361	41	34,800	7	4	0	12	12	1466	62	0	0	192	0	0	0	2	44	✓
362	42	37,640	19	1	18	11	13756	643	24	5	0	46	8	385	4	2	193	✓
364	43	45680	35	56	0	0	26384	236	128	28	0	48	8	364	15	0	52	✓
365	44	3,620	0	24	0	0	7256	0	14	0	0	96	0	24	48	0	198	✓
366	45	3,200	1	0	0	0	3554	0	17	0	0	26	4	0	2	0	0	✓
367	46	4,480	0	0	0	0	15964	0	40	0	0	12	0	0	4	0	0	✓
368	47	3,200	1	0	0	0	1140	0	20	0	0	20	0	4	8	0	0	✓
369	48	3,200	1	0	0	0	17552	0	64	0	0	12	4	0	0	0	0	✓
370	49	3,200	0	0	0	0	2848	0	36	0	0	9	2	2	2	0	0	✓
371	50	3,200	0	0	0	0	17529	0	51	0	0	13	3	3	1	0	0	✓
372	51	2,880	0	0	0	0	40212	0	84	0	0	8	0	4	4	0	0	✓
373	52	2,800	0	0	0	0	12308	304	36	0	0	16	0	0	0	0	0	✓
374	53	2,800	0	0	0	0	4206	0	18	0	0	20	4	0	10	0	0	✓

V.H. Antarktis 75/76 RMT 8 hauls (contd.)

1	2	3	8	9	10	11	12	13	15	16	18	19	21	22	23	24	25	26
376	54	29,600	0	16	4	0	11,510	0	24	0	0	28	4	432	4	0	0	✓
377	55	20,400	22	16	0	0	8244	4	50	4	0	39	1	136	16	3	0	✓
378	56	18,240	21	8	0	2	8,595	0	63	5	0	26	6	135	24	0	2	✓
379	57	34,800	42	4	0	0	27388	0	60	16	0	72	40	652	9	4	0	✓
381	58	30,480	0	0	0	0	126,864	61	40	0	0	0	896	162	4	0	4	✓
383	59	44,240	2	1	0	10	491	789	149	0	0	84	38	25	9	1	31	✓
386	60	17,520	3	2	2	2	1	11	17	1	0	40	1	205	4	6	3	✓
388	61	23,280	0	5	0	0	509	85	18	0	0	42	4	12	3	1	41	0
389	62	24,880	0	27	3	2	3454	7	93	3	0	132	0	428	43	3	8	✓
390	63	38,400	0	14	0	0	1048	1419	147	1	0	117	127	436	13	1	3	✓
391	64	40,880	20	8	4	0	2844	1267	111	11	0	90	28	271	0	7	29	✓
392	65	38,880	0	5	4	0	34	0	57	0	7	53	0	263	0	4	12	✓
394	66	41,600	7	4	4	26	1	1400	394	0	0	100	0	29	0	4	37	✓
395	67	53,040	11	15	5	36	93	5804	172	0	0	199	7	203	4	4	366	✓
397	68	35,920	45	7	0	21	2	4952	36	0	0	58	37	3	4	4	239	✓
400	69	15,040	0	2	0	3	0	27	124	0	0	153	1	0	4	1	69	✓
401	70	21,120	42	19	0	0	0	1925	131	0	0	75	54	0	1	11	55	✓
402	71	40,640	0	12	0	0	0	2	90	0	0	134	2	0	0	4	39	✓
403	72	36,240	38	31	0	4	0	987	210	0	0	184	25	0	6	6	119	✓
[illegible]	73	30[illegible]	0	7	0	0	0	17	316	[illegible]	[illegible]	[illegible]	0	[illegible]	10	15	11	✓

F.H. Antarktis 75/76 Neuston hauls

1	2	3	7	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
2	2	67	4	31	0	0	0	0	24	143	0	0	0	10	0	5848	12	0	3	32	✓
2	2	102	L	10	1	0	0	0	16	201	0	0	0	50	0	5000	1	0	0	0	✓
3	3	44	4	17	2	0	0	0	31	149	5	0	4	0	0	4220	3	0	4	96	✓
3	3	66	L	17	0	0	0	0	80	2	0	0	0	16	0	2760	0	0	0	0	✓
4	4	65	4	0	0	4	0	0	0	4	0	0	0	19	0	0	0	0	0	4	✓
4	4	99	L	0	3	0	0	0	0	15	0	0	0	16	0	1	1	0	0	0	✓
5	5	49	4	0	30	0	0	1	0	671	0	2	0	2160	0	189	1	0	0	165	✓
5	5	75	L	1	17	0	0	0	3	115	0	11	0	4271	0	321	0	0	0	17	✓
8	8	38	4	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	✓
8	8	58	L	0	0	0	0	0	0	1	0	0	0	6	0	0	0	0	0	0	✓
9	9	42	4	2	2	0	0	0	0	979	0	0	0	3	0	1	0	0	0	5	✓
9	9	64	L	0	6	0	0	1	0	247	0	0	0	50	0	0	0	0	0	11	✓
10	10	43	4	0	0	0	0	0	0	27	0	0	0	0	0	0	0	0	0	0	✓
10	10	66	L	0	0	0	0	0	0	153	0	0	0	0	0	0	0	0	0	0	✓
11	11	70	4	0	0	0	0	0	0	5556	0	0	0	0	0	0	0	0	0	4	✓
11	11	107	L	0	0	0	2	0	0	2718	0	0	0	0	0	0	2	0	0	48	✓
12	12	72	4	0	0	0	0	0	15	0	0	0	0	0	1	0	0	0	0	5	✓
13	13	76	4	0	0	0	0	0	0	2089	0	1	0	0	0	0	0	0	0	5	✓
13	13	116	L	0	0	0	0	0	0	2462	0	0	0	0	0	0	0	0	0	0	✓
14	14	93	4	0	0	0	0	0	12	284	0	7	0	28	2	0	0	0	0	0	✓
14	14	140	L	0	0	0	0	24	0	3287	0	0	0	37	0	0	0	0	0	1	✓
14	15	85	4	0	0	0	1	0	10	23	0	8	0	0	0	0	0	0	0	0	✓
14	15	128	L	1	1	0	0	5	433	90	0	60	0	45	0	0	0	1	0	1	✓
15	16	78	4	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	✓
15	16	118	L	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0	0	2	✓
15	28	91	4	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	✓
15	28	137	L	0	0	0	0	5	0	35	0	0	0	0	0	0	0	0	0	0	✓
16	30	99	4	0	0	0	0	2	0	1	0	1	0	2	0	0	0	0	0	2	✓
16	30	139	L	0	0	0	0	2	4	1	0	0	0	3	0	0	0	0	0	0	✓

H. Antarktis 75/76 Neuston hauls (contd.)

1	2	3	7	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
16	32	96	4	0	0	0	0	3	12	134	0	0	0	0	0	0	0	1	0	1	✓
16	32	134	4	2	0	0	0	10	458	678	0	3	0	17	0	0	0	0	0	106	✓
16	34	76	4	0	0	0	0	0	61	50	0	3	0	40	0	0	0	0	0	2	✓
16	34	118	4	0	0	0	0	0	961	215	0	0	0	213	0	0	0	0	0	21	✓
16	36	76	4	0	0	0	0	19	1	0	0	0	0	0	0	0	0	0	0	0	✓
16	36	115	4	0	1	0	0	275	6	0	0	0	1	0	0	0	0	1	0	50	✓
16	38	80	4	0	0	0	1	1	9	12	0	0	0	1	0	0	0	12	0	0	✓
16	38	122	4	0	1	0	0	4	4	7	0	3	0	1	0	0	0	4	0	0	✓
16	40	71	4	0	0	1	0	4	3	344	0	7	0	0	1	0	0	0	0	0	✓
16	40	108	4	0	0	0	0	10	31	356	0	0	0	0	0	0	0	0	0	0	✓
16	42	58	4	0	0	0	0	18	7	378	0	2	0	10	3	0	0	2	0	0	✓
16	42	88	4	0	0	0	0	32	9	1107	0	0	0	100	3	0	0	0	0	0	✓
16	44	76	4	0	0	0	0	0	12	7	0	0	0	0	0	0	0	0	0	0	✓
16	44	115	4	0	0	0	0	0	5	16	0	0	1	16	0	0	0	0	0	0	✓
16	46	161	4	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	1	✓
16	48	87	4	0	0	0	0	0	15	0	0	0	0	1	0	0	0	0	0	10	✓
16	48	131	4	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	✓
16	50	128	4	0	1	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	✓
20	52	75	4	0	0	0	0	0	4	627	0	0	0	0	0	0	0	0	0	0	✓
20	52	113	4	2	0	0	0	0	85	894	0	0	0	7	0	0	0	0	0	2	✓
21	54	68	4	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	1	✓
22	56	59	4	1	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	✓
22	56	96	4	0	0	0	0	0	1	47	0	0	0	0	0	0	0	0	0	17	✓
23	58	47	4	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	1	✓
25	60	64	4	1	0	0	0	0	0	1	0	0	0	2	0	15	0	0	0	5	✓
25	60	98	4	1	0	0	0	0	0	2	0	0	0	1	0	0	0	1	0	32	✓
25	62	68	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	✓
25	62	103	4	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	12	✓

W.H. Antarktis 75/76 Neuston hauls (contd.)

1	2	3	7	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
25	66	66	U	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	✓
25	66	09	L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	✓
25	68	61	U	0	0	0	0	0	0	249	0	0	0	2	0	0	0	0	0	15	✓
25	68	96	L	1	0	0	0	0	0	2497	0	0	0	0	15	0	0	1	0	110	✓
25	70	65	U	0	0	0	0	0	0	473	0	0	0	0	0	0	0	0	0	16	0
25	70	98	L	0	0	0	0	0	0	6288	0	0	0	0	0	0	0	0	0	48	✓
25	72	56	U	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
25	72	85	L	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
25	74	73	L	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	✓
25	76	47	U	2	0	0	3	0	10	1283	0	0	0	0	0	12	0	0	0	14	✓
25	76	71	L	1	0	1	0	0	174	1463	0	0	0	0	0	5	0	0	0	16	✓
26	78	47	U	0	0	0	0	0	1	30	0	0	0	0	0	0	0	0	0	17	✓
26	78	71	L	0	0	0	0	0	2	446	0	0	0	0	0	0	0	0	0	84	✓
26	80	58	L	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	✓
26	82	59	U	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	✓
26	82	89	L	0	0	0	0	0	0	45	0	0	0	0	0	0	0	0	0	9	✓
26	84	80	U	6	0	0	0	1	125	232	0	0	0	3	0	0	0	1	0	14	✓
26	84	122	L	3	0	0	0	0	1626	1494	0	0	0	19	0	0	0	0	0	82	✓
26	86	23	L	0	0	0	0	0	84	372	0	0	0	0	0	0	0	0	0	16	✓
26	88	68	U	0	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	1	0
26	88	100	L	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	✓
26	90	64	U	0	0	0	0	0	1	0	0	0	0	3	0	0	0	0	0	0	0
26	92	69	U	21	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	41	✓
26	92	101	L	1	0	0	1	0	7	20	0	0	0	1	0	0	0	1	0	326	✓
26	94	67	U	0	0	0	0	5	863	14	0	0	0	3	0	0	0	0	0	0	0
26	94	102	L	0	0	0	40	0	1095	99	0	0	0	0	0	1	0	0	0	3	✓
26	98	60	U	0	0	0	4	0	36	21	0	0	0	0	0	0	0	0	0	3	✓
26	98	92	L	0	0	0	17	0	58	93	0	0	0	0	0	0	0	3	0	7	✓

N.H. Antarktis 75/76 Neuston hauls (contd.)

1	2	3	7	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
27	160	58	U	68	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	1	✓
27	100	89	L	5	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	50	✓
27	102	59	U	0	0	0	0	0	0	7	0	0	0	2	0	0	0	0	0	0	✓
27	102	89	L	0	0	0	0	0	0	1	0	0	0	4	0	1	0	0	0	1	✓
27	104	63	U	0	0	0	0	0	146	61	0	0	0	2	0	0	0	0	0	8	✓
27	104	95	L	0	0	0	0	0	346	452	0	0	0	5	0	1	0	0	0	32	✓
27	106	68	U	0	0	0	0	0	110	1241	0	0	0	2	0	8	0	0	0	5	✓
27	106	103	L	0	0	0	1	1	1172	3950	0	0	0	0	0	1	0	100	0	31	✓
27	108	68	U	0	0	0	0	0	41	2	0	0	0	9	0	0	0	0	0	6	✓
27	108	103	L	0	0	0	0	0	504	77	0	0	0	117	8	0	0	16	0	23	✓
27	110	71	U	0	0	0	0	1	15	1	0	0	0	4	0	0	0	3	0	6	✓
27	110	108	L	0	0	0	0	0	61	10	0	0	0	1	0	0	0	0	0	75	✓
27	112	66	U	5	0	0	0	1	165	795	0	0	0	0	0	5	0	7	0	58	✓
27	112	100	L	1	0	0	0	0	914	458	0	0	0	3	0	0	0	0	0	260	✓
27	114	66	U	0	0	0	0	0	30	796	0	0	0	1	0	1	0	0	0	70	✓
27	114	100	L	0	0	0	0	0	20	1458	0	0	0	1	0	0	0	0	0	276	✓
27	116	70	U	0	0	0	0	0	0	9	0	0	0	0	0	2	0	0	0	0	✓
27	116	105	L	0	0	0	0	0	0	101	0	0	0	0	0	2	0	1	0	3	✓
27	118	69	U	0	0	0	0	0	5	2103	0	0	0	0	0	0	0	0	0	12	✓
27	118	105	L	0	0	0	0	0	54	5290	0	0	0	0	0	0	0	0	0	34	✓
29	120	36	U	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	✓
29	120	54	L	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	5	✓
30	122	36	U	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	✓
30	122	55	L	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0
35	124	52	U	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0
35	124	78	L	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0
36	126	40	U	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	✓
36	126	60	L	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	✓
37	128	83	L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	✓

W.H. Antarktis 75/76 Neuston hauls (contd.)

1	2	3	7	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
43	130	53	U	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	✓
43	130	80	L	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	✓
44	132	36	U	10	0	0	0	0	1	25	0	0	0	0	0	0	0	0	0	1	✓
44	132	54	L	80	0	0	0	0	4	16	0	0	0	0	0	0	0	0	0	1	✓
45	134	27	U	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	✓
46	136	32	U	0	0	0	0	0	0	6	0	0	0	2	0	0	0	0	0	4	✓
46	136	48	L	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	25	✓
47	138	30	L	0	0	0	0	0	0	8	0	0	2	0	0	0	0	0	0	72	✓
48	140	70	L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	✓
50	144	86	L	0	0	0	0	0	0	1	0	0	0	2	0	3	0	0	0	0	✓
52	144	49	U	0	0	0	0	0	0	3	0	0	0	0	0	16	0	0	0	0	✓
52	144	71	L	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	●
53	146	49	U	19	0	0	0	0	1	4	0	0	0	0	0	1	0	1	0	1	●
53	146	74	L	0	0	0	0	0	2	3	0	0	0	0	0	20	0	4	0	11	✓
54	148	39	U	0	0	0	0	0	0	61	0	0	0	0	0	0	0	0	0	1	✓
54	148	59	L	1	0	0	0	0	0	145	0	0	0	0	0	5	0	0	0	0	✓
55	150	56	U	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	●
55	150	86	L	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	✓
58	1132	55	U	0	0	0	0	0	0	23	0	0	0	0	0	0	0	0	0	0	✓
58	152	84	L	0	0	0	0	0	0	102	0	0	0	0	0	21	0	0	0	5	✓
59	154	54	U	1	0	0	9	0	223	167	0	0	0	2	0	40	0	15	0	2	✓
59	154	82	L	1	0	0	11	18	707	165	0	0	0	3	0	43	0	7	0	0	✓
60	156	39	U	0	0	0	0	0	58	8	0	0	0	6	2	0	0	0	0	17	✓
60	156	59	L	0	0	0	0	0	175	2	0	0	0	8	0	0	0	1	0	36	✓
61	158	32	U	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	✓
61	158	48	L	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	10	✓
62	160	53	U	0	0	0	0	0	0	1	0	0	0	0	0	3	0	3	0	24	✓
62	160	80	L	0	0	0	0	0	3	0	0	0	0	1	0	1	0	0	0	1	✓

W.h. Antarktis 75/76 Neuston hauls (contd.)

1	2	3	7	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
63	162	54	L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	✓
64	164	93	L	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	✓
65	166	59	U	0	0	0	0	0	3	1	0	0	0	0	0	3	0	0	0	0	0
65	166	89	L	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	3	✓
66	168	68	L	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	✓
68	170	47	U	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
68	170	62	L	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	✓
69	172	48	U	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	50	✓
69	172	73	L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	✓
73	178	69	L	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	✓
74	180	62	U	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	✓
74	180	63	L	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	3	✓
75	182	33	U	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	✓
75	182	50	L	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	✓
77	186	37	L	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	✓
79	186	44	U	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	✓
95	199	46	U	0	0	0	1	0	0	3	0	0	0	0	0	0	0	0	0	0	✓
95	199	69	L	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	1	✓
98	202	45	U	0	0	0	1	0	0	196	0	0	0	0	0	0	0	0	0	1	✓
98	202	69	L	0	0	0	3	0	4	185	0	0	0	1	0	0	0	0	0	0	✓
100	204	39	U	0	0	0	1	0	95	79	0	0	0	0	0	0	0	10	0	2	✓
100	204	60	L	1	0	0	0	0	307	75	0	0	0	1	0	0	0	64	0	>8	✓
103	206	54	U	3	0	1	0	6	5	600	0	0	0	44	0	437	0	0	0	0	✓
103	206	82	L	1	0	0	0	0	33	494	0	0	0	79	0	815	0	0	0	0	✓
105	208	68	U	0	0	0	0	0	131	162	0	5	0	433	14	156	1	4	0	6	✓
105	208	103	L	0	0	0	0	0	264	86	0	1	0	338	47	320	0	0	0	5	✓

J.H. Antarktis 75/76 Neuston hauls (contd.)

1	2	3	7	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
107	210	69	M	3	4	7	0	5	16	52	0	0	0	8	0	1	0	0	0	0	✓
107	210	104	L	0	6	9	3	8	16	17	0	0	0	46	0	1	0	0	0	0	✓
109	212	65	M	5	0	65	0	11	43	4	0	0	119	29	0	0	3	1	0	0	✓
109	212	98	L	2	1	0	0	4	10	6	0	2	123	57	1	2	0	0	0	13	✓
110	214	59	M	0	0	0	0	0	8	14	24	0	0	0	5	0	0	0	0	0	✓
110	214	87	L	0	0	0	0	0	0	29	30	0	0	0	0	0	0	0	0	0	✓
111	216	60	M	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	✓
111	216	91	L	0	0	0	0	1	4	2	0	0	0	0	0	0	0	0	0	0	✓
112	218	36	M	0	0	0	0	0	0	5	0	0	0	1	0	0	0	0	0	0	✓
112	218	515	L	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
113	220	53	M	0	0	0	0	0	1	2	0	0	0	2	0	0	0	0	0	0	✓
113	220	81	L	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	✓
114	222	57	M	0	0	0	0	35	43	20	0	0	0	2	0	0	0	1	0	5	✓
114	222	87	L	0	0	0	0	0	565	11	1	0	0	0	0	0	0	1	1	0	✓
115	224	34	M	1	0	0	0	1	2	26	0	0	0	1	0	0	0	0	0	6	✓
115	224	55	L	0	0	0	0	3	0	37	0	0	0	1	0	0	0	0	0	6	✓
116	226	64	M	1	0	0	0	2	0	6	0	0	0	2	0	0	0	0	0	0	✓
116	226	97	L	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	✓
120	228	41	M	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	2	✓
120	228	63	L	0	0	0	0	0	2	13	0	0	0	1	4	0	0	0	0	6	✓
121	230	63	L	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	✓
123	232	46	M	0	0	0	0	0	0	10	0	0	0	0	0	2	0	0	0	0	✓
123	232	70	L	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	✓
124	234	51	M	0	0	0	1	1	5	0	0	0	0	0	2	2	0	0	0	0	0
124	234	77	L	0	0	0	0	0	83	0	0	0	0	0	0	2	0	0	0	0	✓
125	236	57	M	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	✓
125	236	86	L	0	0	0	0	0	6	1	0	0	0	0	0	2	0	1	0	0	✓
126	238	46	M	0	0	0	0	0	2	3	0	0	0	0	0	14	0	0	0	0	0
126	238	69	L	0	0	0	0	0	14	1	0	0	0	0	0	0	0	0	0	0	✓

W.H. Antarktis 75/76 Neuston hauls (contd.)

1	2	3	7	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
127	240	61	U	0	0	0	0	0	59	0	0	0	0	0	0	1	0	0	0	0	✓
127	240	92	L	0	0	0	0	0	54	2	0	0	0	0	0	1	0	0	0	0	✓
128	242	26	U	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	✓
128	242	34	L	0	0	0	0	0	12	0	0	0	0	0	0	10	0	1	0	0	✓
129	244	55	U	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	✓
129	244	83	L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	✓
132	247	39	U	0	0	0	0	0	11	2	0	0	0	0	0	3	0	0	0	0	✓
132	247	59	L	0	0	0	0	0	3	0	0	0	0	1	0	4	0	0	0	0	✓
137	249	44	U	0	0	1	0	0	0	0	0	0	0	0	0	5	0	0	0	0	✓
137	249	66	L	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	✓
138	251	39	U	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	✓
138	251	58	L	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
139	253	35	U	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	11	0
139	253	53	L	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	✓
147	267	56	U	0	0	0	0	0	4	0	0	0	0	0	0	0	0	2	0	0	✓
147	267	82	L	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	✓
148	269	70	U	0	0	0	0	1	1	4	0	0	0	0	0	1	0	1	0	0	0
148	269	106	L	0	0	0	0	0	8	4	0	0	0	0	0	1	0	0	0	1	✓
151	272	71	U	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0
151	272	108	L	0	0	0	0	0	7	2	0	0	0	0	0	3	0	0	0	0	✓
158	280	59	U	0	0	0	0	0	49	6	0	0	0	0	0	59	0	0	0	1	✓
158	280	90	L	0	0	0	0	0	2	2	0	0	0	0	0	7	0	0	0	0	0
159	282	53	L	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
160	284	40	U	0	0	0	1	0	0	0	0	0	0	0	0	0	0	5	0	0	0
161	286	51	U	14	0	0	2	0	0	3	0	0	0	0	0	21	0	0	0	0	0
161	286	77	L	29	0	0	0	0	0	4	0	0	0	0	0	79	0	1	0	0	0
162	288	39	U	1	0	0	413	0	0	0	0	0	0	0	0	0	0	0	0	0	0
162	288	59	L	2	0	1	249	0	0	0	0	0	0	0	0	0	0	0	0	0	0

W.H. Antarktis 75/76 Neuston hauls (contd.)

1	2	3	7	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
163	290	39	U	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
163	290	58	L	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0
164	292	48	U	0	0	0	0	0	0	1	0	0	0	0	0	18	0	0	0	0	0
164	292	73	L	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0
165	294	36	U	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	✓
165	294	55	L	0	0	0	0	0	0	0	0	0	0	0	0	27	0	0	0	0	✓
166	296	42	U	0	0	0	0	0	10	0	0	0	0	0	0	0	0	1	0	0	✓
166	296	64	L	0	0	0	0	0	4	1	0	0	0	0	0	1	0	1	0	0	✓
167	298	55	U	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
168	300	56	U	0	0	0	0	0	0	3	0	0	0	0	0	9	0	0	0	0	0
168	300	85	L	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	✓
168	304	59	U	0	0	0	0	0	0	15	0	0	0	0	0	8	0	0	0	0	0
168	304	89	L	2	0	0	0	0	1	6	0	0	0	0	0	15	0	0	0	0	✓
168	306	74	U	56	0	0	0	0	5	4	0	0	0	0	0	21	0	0	0	0	✓
168	306	112	L	32	0	0	0	0	38	0	0	0	0	0	0	9	0	0	0	0	✓
168	308	63	U	43	0	0	0	0	0	3	0	0	0	0	0	4	0	0	0	0	0
168	308	96	L	13	0	0	0	0	43	3	0	0	0	0	0	2	0	5	0	0	✓
168	310	65	U	0	0	0	0	0	0	4	0	0	0	0	0	29	0	0	0	0	✓
168	312	67	U	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	✓
168	316	45	U	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
168	318	45	U	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0
168	318	68	L	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
168	320	70	U	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0
168	320	106	L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
168	322	54	U	106	0	0	0	1	1	3	0	0	0	0	0	0	0	0	0	0	0
168	322	81	L	114	0	0	0	0	16	4	0	0	0	0	0	0	0	0	0	0	0
168	324	76	U	2	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0
168	324	115	L	43	0	0	0	0	40	3	0	0	0	0	0	0	0	0	0	0	0

W.H. Antarktis 75/76 — Neuston hauls (contd.)

1	2	3	7	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
168	326	67	U	0	0	1	0	0	0	11	0	0	0	0	0	10	0	0	0	0	√
168	326	101	L	3	0	1	0	0	17	9	0	0	0	0	0	9	0	3	0	0	√
168	328	74	U	0	0	0	0	0	1	1	0	0	0	0	0	4	0	0	0	0	√
168	328	112	L	0	0	0	0	0	1	0	0	0	0	0	0	4	0	0	0	0	√
168	330	67	U	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	√
168	332	63	U	0	0	0	0	0	0	4	0	0	0	0	0	3	0	0	0	0	√
168	332	96	L	0	0	0	0	0	0	0	0	0	0	0	0	3	0	1	0	0	√
168	334	75	U	0	0	0	0	0	0	0	0	0	0	0	0	3	0	1	0	0	√
168	334	114	L	0	0	0	0	0	3	0	0	0	0	0	0	0	0	1	0	0	√
168	336	64	U	0	0	0	0	0	0	1	0	0	0	3	0	1	0	14	0	0	√
168	336	98	L	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	0	0	√
168	338	71	U	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
168	338	108	L	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
168	340	66	U	0	0	0	0	0	0	13	0	0	0	0	0	28	0	0	0	0	√
168	340	100	L	0	0	0	0	0	1	2	0	0	0	0	0	12	0	0	0	0	√
168	342	72	U	110	0	0	0	0	2	4	0	0	0	0	0	18	0	0	0	0	√
168	342	110	L	93	0	0	0	0	23	1	0	0	0	0	0	28	0	1	0	0	√
168	344	94	U	144	0	4	0	0	15	8	0	0	0	0	0	11	0	3	0	0	√
168	344	142	L	140	0	0	0	0	23	3	0	0	0	0	0	12	0	3	0	0	√
168	346	87	U	0	0	3	0	0	0	6	0	0	0	0	0	28	0	0	0	0	0
168	346	135	L	1	0	0	0	0	0	6	0	0	0	0	0	28	0	0	0	0	0
168	348	53	U	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	√
168	350	81	U	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
168	350	123	L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
168	352	56	U	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	√
168	354	102	U	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	√
168	356	91	U	35	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	√
168	356	108	L	25	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	√

W.H. Antarktis 75/76 — Neuston hauls (contd.)

1	2	3	7	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
168	358	85	U	26	0	0	0	0	3	3	0	0	0	0	0	14	0	0	0	0	✓
168	358	67	L	27	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	✓
168	361	67	U	4	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	✓
168	361	101	L	5	0	0	0	4	0	4	0	0	0	0	0	1	0	0	0	0	✓
168	363	63	U	0	0	0	0	0	0	11	0	0	0	0	0	1	0	0	0	0	✓
168	363	95	L	6	0	0	0	0	0	4	0	0	0	0	0	15	0	0	0	0	✓
168	365	83	U	0	0	0	1	0	1	4	0	0	0	0	0	16	0	0	0	0	✓
168	365	122	L	0	0	0	0	0	12	1	0	0	0	0	0	19	0	1	0	0	✓
168	367	85	U	0	0	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0
168	367	129	L	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	✓
168	369	62	U	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0
168	369	95	L	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	✓
169	371	71	U	1	0	1	3	0	0	0	0	0	0	0	0	15	0	0	0	0	✓
169	371	108	L	1	0	0	4	0	0	1	0	0	0	0	0	72	0	0	0	0	✓
174	375	54	U	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
183	379	57	U	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	1	✓
183	379	86	L	0	0	2	7	0	0	1	0	0	0	0	66	0	0	5	0	0	✓
185	381	52	U	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0
186	383	97	L	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	✓
188	385	48	U	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0
188	385	73	L	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	✓
189	387	59	U	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	✓
189	387	89	L	0	0	0	1	0	1	1	0	0	0	3	1	0	0	0	0	5	✓
190	389	38	U	0	0	0	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0
190	389	58	L	0	0	0	18	0	0	0	0	0	0	0	0	1	0	0	0	0	✓
217	395	68	U	0	0	0	0	0	1	5	0	0	0	1	0	0	0	0	0	0	
217	395	104	L	0	0	0	0	0	11	3	0	0	0	5	0	0	0	0	0	1	
218	397	70	U	0	0	0	0	0	12	4	0	0	0	19	0	0	0	0	0	3	
218	397	105	L	0	0	0	0	0	63	4	0	0	0	7	0	0	0	0	0	5	

W.H. Antarktis 75/76 Neuston hauls (contd.)

1	2	3	7	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
219	399	60	u	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	✓
223	402	39	u	0	0	0	0	0	0	11	0	0	0	0	0	2	0	0	0	0	0
223	402	59	L	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
226	405	111	L	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	✓
240	411		u	0	0	0	0	0	15	64	0	0	0	0	0	26	0	0	0	0	✓
240	411		L	0	0	0	0	0	20	32	0	0	0	0	0	18	0	0	0	0	✓
241	413	37	u	1	0	0	0	0	3	85	0	0	0	0	0	98	0	0	0	0	✓
241	413	56	L	0	0	0	1	1	0	56	0	0	0	0	0	100	0	0	0	0	✓
243	417	63	u	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	✓
243	417	95	L	0	0	0	0	0	19	0	0	0	0	1	0	0	0	12	0	0	✓
267	1	80	L	1	0	0	0	0	16	371	0	0	0	5	0	0	0	1	0	14	✓
270	2	58	u	0	0	0	0	14	13	1985	0	0	0	3	0	1	0	0	0	8	✓
270	2	68	L	0	0	0	0	0	141	1044	0	0	0	3	0	3	0	0	0	293	✓
276	3	119	L	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	✓
278	4	68	u	0	0	0	1	0	39	32	0	0	0	0	0	25	0	0	0	0	✓
283	5	72	u	0	0	2	34	0	4	8	0	0	0	0	0	0	0	0	0	0	✓
283	5	109	L	0	0	0	20	5	4	4	0	0	0	0	0	0	0	0	0	0	✓
284	6	64	u	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	✓
284	6	98	L	0	0	0	7	0	1	4	0	0	0	0	0	0	0	0	0	0	✓
285	7	68	u	0	0	0	0	6	0	1	0	0	0	15	0	0	3	15	1	0	✓
285	7	103	L	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	0	✓
292	8	67	u	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
298	9	69	u	0	0	0	0	3	7	501	0	0	0	0	0	0	0	2	0	0	0
298	9	104	L	0	0	0	0	0	4	310	0	0	0	0	0	0	0	0	0	0	0
299	10	67	u	0	0	0	0	0	2	8	0	0	0	0	0	0	0	0	0	0	0
299	10	101	L	0	0	0	0	1	0	3	0	0	0	0	0	0	0	0	0	0	0

W.H. Antarktis 75/76 . Neuston hauls (contd.)

1	2	3	7	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
309	11	74	U	0	0	0	0	0	79	14	0	0	0	8	0	41	0	0	0	0	0
309	11	112	L	0	0	0	0	0	183	9	0	0	0	2	0	10	0	0	0	0	0
304	12	77	U	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	√
312	13	67	U	0	0	0	3	1	0	6	0	0	0	1	0	0	0	0	0	1	√
312	13	102	L	0	0	0	2	0	0	1	0	0	0	1	0	0	0	0	0	0	√
313	14	65	U	0	0	0	4	0	0	4	0	0	0	0	3	0	0	0	0	0	√
313	14	98	L	0	0	0	26	0	0	2	0	0	0	0	0	0	0	0	0	0	√
315	15	97	L	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
317	16	75	U	0	0	0	175	0	0	86	0	0	0	0	0	0	0	0	0	0	0
317	16	146	L	0	0	0	157	0	0	11	0	0	0	0	0	0	0	0	0	0	0
320	17	87	U	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0
320	17	41	L	0	0	0	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0
322	19	78	U	0	0	0	0	0	7	4	0	0	0	5	0	4	0	0	0	0	√
322	19	118	L	0	0	0	0	0	18	0	0	0	0	4	0	0	0	0	0	0	√
324	20	69	U	0	0	0	13	0	10	2	0	0	0	0	0	0	0	1	0	0	√
324	20	100	L	0	0	0	22	0	7	5	0	0	0	0	0	0	0	1	0	0	√
326	21	70	U	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	√
326	21	105	L	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	√
327	22	72	U	0	0	0	5	0	0	77	0	0	0	0	0	0	0	0	0	0	√
327	22	109	L	0	0	0	4	0	5	46	0	0	0	0	0	0	0	1	0	0	√
328	23	73	U	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
328	23	110	L	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0
330	24	76	U	0	0	0	0	0	0	0	0	0	0	2	0	0	0	4	0	7	√
330	24	115	L	0	0	0	0	0	0	0	0	0	0	3	0	0	1	1	0	0	√
333	25	92	L	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	√
335	26	61	U	0	0	0	2	0	0	2	0	0	0	0	1	0	0	0	0	0	√
335	26	92	L	0	0	0	0	0	4	2	0	0	0	0	1	0	0	0	0	0	√
336	27	71	U	0	0	0	15	0	2	0	0	0	0	0	1	0	0	0	0	1	√
336	27	108	L	0	0	0	19	1	0	0	0	0	0	0	0	0	0	0	0	0	√

1	2	3	7	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
337	28	113	L	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3	0	5	✓
338	29	106	L	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	✓
339	30	78	U	0	0	0	0	0	35	0	0	0	0	1	0	0	0	0	0	0	✓
339	30	101	L	0	0	0	0	2	32	0	0	0	0	2	0	0	0	0	0	0	✓
354	33	65	U	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	✓
354	33	98	L	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	✓
356	34	70	U	0	0	0	0	0	11	1	0	0	0	2	0	0	0	1	0	0	✓
356	34	102	L	0	0	0	1	0	18	9	0	0	0	3	0	0	0	0	0	0	✓
357	35	67	U	0	0	0	0	6	3	2	0	0	0	0	0	0	0	0	0	0	✓
357	35	102	L	0	0	0	0	0	9	3	0	0	0	0	0	0	0	0	0	65	✓
358	36	67	U	0	0	0	0	0	13	7	0	0	0	33	0	0	0	0	0	1	✓
358	36	102	L	2	0	0	0	17	3	6	0	0	0	44	49	0	0	0	0	6	✓
359	37	61	U	0	0	0	0	0	1	262	0	0	0	0	0	0	0	0	0	0	✓
359	37	92	L	0	0	0	0	0	3	1158	0	0	0	0	0	0	0	0	0	0	✓
360	38	77	U	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	2	✓
360	38	117	L	0	0	0	0	1	1	0	0	0	0	3	0	0	0	0	0	0	✓
361	39	51	U	0	0	0	0	0	0	60	0	0	0	0	0	0	0	0	0	0	✓
361	39	77	L	0	0	0	0	0	1	25	0	0	0	0	0	0	0	0	0	0	✓
362	40	76	U	0	0	0	5	0	1	5	0	0	0	0	0	0	0	0	0	0	✓
362	40	115	L	0	1	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0
364	41	70	U	0	0	0	78	1	0	29	0	0	0	6	0	0	0	1	0	0	✓
364	41	107	L	0	0	0	350	2	1	7	0	0	0	36	0	0	0	1	0	0	✓
376	42	67	U	0	0	0	5	0	1	1	0	0	0	3	0	0	0	0	0	0	✓
376	42	102	L	0	0	0	2	0	4	0	0	0	0	0	0	0	0	0	0	0	✓
379	43	62	U	0	0	0	139	0	5	3	0	0	0	9	0	0	0	8	0	0	✓
379	43	94	L	0	0	0	339	0	7	2	0	0	0	8	0	0	0	35	0	0	✓
381	44	71	U	0	1	0	7	0	0	0	0	0	0	0	0	0	0	5	0	0	✓
381	44	107	L	0	0	0	71	0	0	8	0	0	0	0	0	19	0	14	0	0	✓

W.H. Antarktis 75/76 Neuston hauls (contd.)

1	2	3	7	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
397	45	63	4	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	4
397	45	96	4	0	0	0	0	0	0	0	0	9	0	1	0	0	0	0	0	0	4
400	46	46	4	0	0	0	0	1	0	132	0	0	0	0	0	0	0	0	0	0	4
400	46	70	4	0	0	0	0	0	0	86	0	0	0	0	0	0	0	0	0	0	4
401	47	57	4	0	0	0	0	0	4	358	0	0	0	3	0	0	0	0	0	0	4
401	47	87	4	1	0	0	0	0	5	49	0	0	0	12	0	0	0	0	0	0	4

W.H Antarktis 75/76 Bongo hauls

1	2	3	5	6	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
288	1		300	½	5	0	0	318	38	44	1	0	0	0	11	0	0	0	36	0	0	√
298	1	1,496	500	¼	10	10	1	324	391	42	11	1	0	0	24	0	3	9	89	0	1	√
289	2		300	1/16	5	0	0	0	2	2	14	0	0	0	62	0	0	15	83	0	1	√
289	2		500	1/8	2	0	0	3	133	6	13	0	0	0	30	0	0	16	69	0	1	√
297	3		300	1/16	63	0	0	0	217	4234	331	0	48	0	904	0	1331	0	54	0	354	√
302	4		300	1/32	73	0	0	3	401	5472	177	0	0	0	1207	0	2091	0	34	1	98	√
302	4		500	1/32	100	0	3	1	369	3264	284	0	0	0	813	0	1828	0	66	1	2	√
304	5		300	1/32	41	8	65	0	354	1696	201	0	0	0	1271	0	1	0	128	0	0	√
304	5		500	1/32	46	0	0	0	10	1792	142	1	0	0	3482	0	0	0	64	0	160	√
305	6	1,122	500	1/32	69	0	0	2493	193	4,8%	45	0	0	383	2697	0	32	0	2	0	2	√
306	7	1,623	500	1/32	97	0	0	81	258	5568	213	0	0	0	2105	0	1	0	68	0	898	√
333	8		500	1/32	19	2	0	42	126	103	4	0	0	0	323	0	0	40	5	0	0	√
339	9	1,730	500	1/128	278	0	0	28	157	7944	134	0	0	0	6074	0	0	0	134	0	257	√
382	10	1,662	500	¼	68	2	1	4	1355	344	135	0	0	0	1464	32	3	8	45	0	13	√
394	11	1,802	500	1/32	26	1	2	0	40	128	33	1	0	0	1065	0	0	34	386	0	42	√
395	12	1,651	500	1/64	0	0	0	0	0	33831	5	0	0	0	3476	0	0	0	5	0	0	√
387	13	2,171	500	1/32	103	0	0	0	1	384	275	0	0	0	3510	0	0	615	1823	1	98	√
393	14	2,527	500	1/32	3	35	0	0	17	401	838	0	0	0	3501	0	1	56	1352	0	67	√
394	15	620	500	1/8	0	0	0	0	179	0	9	0	0	0	184	0	0	0	16	0	0	√

W.H. Antarktis 75/76 — Meßhai hauls

1	2	4	5	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
14	14	1	1/2	0	0	0	0	4	662	44	0	8	0	384	0	0	8	16	4	18	✓
14	14	2	1/1	7	0	1	0	21	106	20	0	0	0	442	0	0	25	36	0	3	✓
14	14	3	2/1	4	0	0	0	5	37	16	0	0	0	297	0	0	0	31	0	0	✓
14	14	4	2/1	12	0	0	0	8	1288	20	0	34	0	1742	0	0	0	4	0	0	✓
14	14	5	1/1	9	0	0	0	4	1141	27	0	2	0	309	0	0	0	1	0	+	✓
14	14	6	1/16	53	0	0	0	32	4176	198	0	0	0	1876	0	0	0	0	4	400	✓
16	25	1	1/8	16	0	0	0	0	3096	8	0	48	0	464	0	0	0	32	0	0	✓
15	26	2	1/1	5	2	0	0	2	411	22	0	0	0	361	0	0	8	17	0	34	✓
15	25	3	1/32	1	0	0	0	0	18000	0	0	0	0	736	0	0	0	0	0	0	✓
15	25	4	1/32	34	0	0	0	0	2372	96	0	32	0	288	0	0	32	32	0	54	✓
15	25	5	1/1	28	0	0	0	14	967	49	0	0	0	37	0	0	0	0	0	13	✓
15	25	6	1/1	0	0	0	0	0	23	34	0	0	0	84	0	0	0	0	0	0	✓
15	27	1	1/2	39	0	0	0	0	1086	6	0	0	0	188	0	0	1	5	0	+	✓
15	27	2	1/1	9	0	0	0	0	83	11	0	0	0	31	0	0	0	0	0	2	✓
15	27	3	1/16	543	0	0	0	0	3456	16	0	0	0	320	0	0	0	0	0	118	✓
15	27	4	1/8	72	0	0	0	0	13720	0	0	344	0	64	0	0	0	0	0	120	✓
16	27	5	1/1	27	0	0	0	14	20	5	0	3	0	0	0	0	0	4	0	0	✓
16	27	6	1/1	29	0	0	0	13	0	10	0	0	1	0	0	0	0	0	0	0	✓
16	29	1	1/4	157	0	4	0	6	396	7	0	524	0	10	0	0	0	0	0	4	✓
16	29	2	1/1	17	0	0	0	0	235	1	0	82	0	24	0	0	0	0	0	63	✓
16	29	3	1/4	352	0	0	0	0	432	0	0	40	0	156	0	0	0	0	0	0	✓
16	29	4	1/16	76	0	0	0	0	6128	0	0	2736	0	80	0	0	0	0	0	416	✓
16	29	5	1/1	20	0	0	0	37	34	19	0	70	0	31	0	0	0	0	0	+	✓
16	29	6	1/1	21	0	0	0	131	0	19	0	0	0	37	0	0	0	0	0	423	✓
16	31	1	1/25	108	0	0	0	0	7492	0	0	510	0	3800	0	0	0	2048	0	1224	✓
16	31	2	1/1	1	0	0	0	0	6418	0	0	0	0	82	0	0	0	68	0	0	✓
16	31	3	1/1	11	0	0	0	0	3270	1	0	0	0	63	0	0	0	30	0	0	✓
16	31	4	1/1	15	0	0	0	0	1147	1	0	0	0	8	0	0	0	0	0	0	✓
16	31	5	1/8	0	0	0	0	0	1554	0	0	0	0	4	0	0	0	0	0	36	✓
16	31	6	1/1	0	0	0	0	0	599	0	0	0	0	0	0	0	0	0	0	1	✓

W.H. Antarktis 75/76 — Meßhai hauls (contd.)

1	2	4	6	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
16	33	1	1/32	0	0	0	0	32	6752	0	0	0	0	2784	352	0	0	32	0	128	✓
16	35	1	1/16	18	0	0	0	0	6672	80	0	0	0	496	0	0	0	0	0	0	✓
16	37	1	1/16	65	0	0	0	0	4352	112	0	0	0	32	0	0	0	0	0	480	✓
16	39	1	1/32	96	0	0	0	0	7584	64	0	96	0	224	320	0	0	0	0	0	✓
16	41	1	1/8	16	0	0	0	0	9304	88	0	8	0	1144	144	0	0	192	0	64	✓
16	43	1	1/16	6	0	0	0	0	6656	0	0	0	0	640	0	0	0	0	0	0	✓
16	45	1	1/16	0	0	0	0	0	9712	112	0	0	0	5392	0	0	0	240	0	752	✓
16	47	1	1/32	7	32	0	0	10	17536	244	0	128	0	2465	0	0	64	96	1	4	✓
16	49	1	1/16	18	0	0	0	0	2112	80	0	80	0	1360	16	0	0	240	16	0	✓
262	420	1	1/1	5	0	0	4	1	764	9	0	0	6	72	0	0	1	1	0	0	✓
262	420	3	1/1	0	0	0	0	0	12	0	0	0	1	0	0	0	0	0	0	0	✓
262	420	4	1/1	2	0	0	4	0	91	0	0	0	0	11	0	0	0	0	0	0	✓
262	420	5	1/1	0	0	0	1	0	15	1	0	0	0	2	0	0	0	0	0	0	✓
262	421	2	1/1	6	0	0	0	713	0	2	0	0	0	58	0	0	0	0	0	0	✓
262	421	3	1/1	3	0	0	1	644	2	13	0	0	0	34	0	0	0	7	0	0	✓
262	421	4	1/1	5	0	0	0	0	1012	10	0	0	0	15	0	0	0	7	0	0	✓